

Marine Biological Laboratory

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WILLIAM PROCTER



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BIOLOGICAL SURVEY
OF THE
MOUNT DESERT REGION
INCORPORATED

Founded and directed by
WILLIAM PROCTER

PART VII

Being a revision of Parts I and VI
with the addition of 1100 species.

THE INSECT FAUNA

*with references to methods of capture, food plants,
the flora and other biological features.*

WILLIAM PROCTER, D.Sc.

From the Laboratory of
THE BIOLOGICAL SURVEY OF THE
MOUNT DESERT REGION, INC.

Corfield, Bar Harbor, Maine

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*“Every kingdom, every province,
should have its own monographer.”*

— GILBERT WHITE, *Natural History*
of Selborne, 1879

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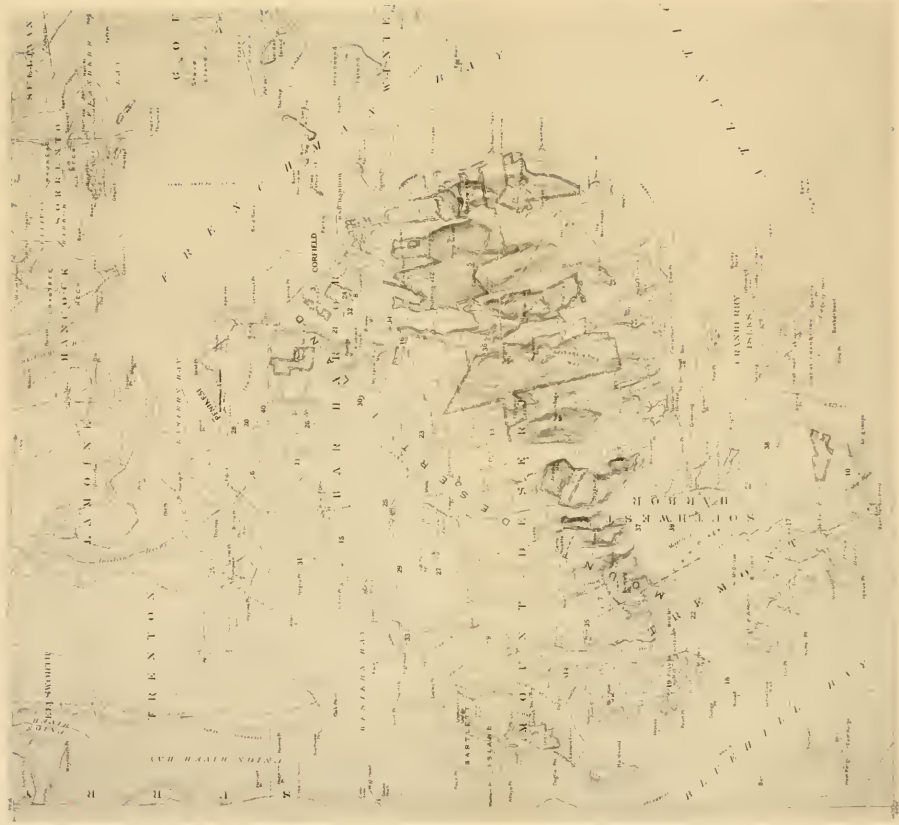
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DEDICATION

This volume is dedicated with gratitude to those
who have helped me in its preparation.





ACKNOWLEDGMENTS

I have listed alphabetically the many persons who have shown their interest and kindness in giving me help of many kinds. To them I am profoundly grateful and as mentioned elsewhere I dedicate this volume to them as a mark of my appreciation.

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THE ISLAND OF MOUNT DESERT

"An island full of hills and dells,
All rumpled and uneven
With green recesses, sudden swells,
And odorous valleys driven
So deep and straight, that always there
The wind is cradled to soft air."

ELIZABETH BARRET BROWNING

Situated on the southern edge of the Boreal region, and the northern line of what is known as the Transitional Zone of the Austral, where the species of the so-called Canadian life-zone meet those from the South, the Island of Mt. Desert furnishes a most fascinating place for the naturalist to study the insect life. A central range of mountains rising from 1000 to 1500 feet forms the backbone of the Island from east to west, with steep cliffs toward the east, more moderate ones toward the west, and to the north and south, gentle slopes which leave a section of a third of the island with an altitude of about 200 feet above sea level in each direction.

This mountain range was cut by the rivers and the ice of the glacial period, which gouged out the great U-shaped valleys of today, and also formed the basins which are now the lakes and the fjord called Somes Sound. The mountains toward the east are polished off and have a vegetation of scrub on the bare granite, while the western mountains are heavily wooded.

In a few words, by studying the geology we find that the lowlands are developed on the rocks of the early Paleozoic and the mountains are the hard Devonian granites, while the great valleys and the lakes result from the glacial action. The other features are due to the earth movement, wind, frost, and the ever eroding action of the beating waves.

Now all of this has no direct bearing upon the insects of today, for the altitude of the mountains is practically eliminated as a factor by the sea, winds, and fogs, but it has a direct bearing upon the flora, and the flora and insect life are merged and interdependent.

I can best give an idea of the flora of the Island by quoting from Part I of the Survey.



Jordan Pond



A Glacial Boulder

“One¹ of the most marked characteristics of the island flora is its not only strongly northern, but arctic character. On its coast, enveloped in cold fogs and washed by waters chilled by the arctic currents, it is no wonder that arctic plants like *Montia fontana* and *Stellaria humifusa* should find a congenial home. Moreover this character of the flora is shown by the fact that with one exception, *Lycopodium selago*, the mountain plants descend to the sea level. Neither on the



one hand is the altitude of the mountain summits sufficient to develop an alpine flora nor on the other hand is the warmth and general character of the lowlands sufficient to bring many of the plants of the middle temperate region thus far up the coast of Maine. The flora then may be said to be essentially Canadian, having close relations with the very similar flora of New Brunswick. It also shows, apart from its maritime character, many points of resemblance to the general flora of

¹“A preliminary catalogue of the plants growing on Mount Desert,” by Edward L. Rand and John H. Redfield, p. 20. Cambridge, 1894.

the White Mountain region. It is in its special problems however, that plant distribution becomes of great interest at Mount Desert."

Prof. M. L. Fernald,² in referring to the diversity of the island flora, says: "The flora of the Mount Desert region is not by any means entirely arctic or subarctic. There we find essentially all of the common plants of the Canadian zone and mingling with them in sheltered nooks and meadows or on warm slopes, many scores of plants which reach their extreme northern or northeastern limit on Mount Desert or the immediate coast — such plants as the Pitch Pine, *Pinus rigida*; the Bear Oak, *Quercus ilicifolia*; the Sweet Pepperbush, *Clethra alnifolia*; the Swamp Loosestrife, *Decodon verticillatus*; the Meadow Beauty, *Rhexia virginica*, and the maple-leaved Viburnum, *Viburnum acerifolium*. This extraordinary accumulation within one small area of the typical plants of the arctic realm, of the Canadian Zone and in many cases of the southern coastal plain, cannot be duplicated at any point known to the writer."

This diversity and the temperature of the Island are aptly pointed out by Mr. Barrington Moore,³ editor of Ecology, who says: "From the forestry point of view I can state that on no area of this size have I seen growing together forests representing such different conditions and consequently with such different requirements. The vegetation in general appears to be even more remarkable than the forests. Rand has found on the Island 230 species of plants common to the arctic. The crowberry (*Empetrum nigrum*) grows here at sea level, while inland at this latitude and even further north it is found only on the summits of the high mountains above timber line under truly arctic alpine conditions, and still the southern sweet fern (*Myrica asplenifolia*) grows here in actual contact with these boreal plants.

²"An Acadian plant sanctuary." *Sieur de Monts Publication*, vol. 5, p. 6.

³"Scientific aspects of Mt. Desert Island." *The Maine Naturalist*, vol. 1, p. 100, 1921.

"An indication of the comparative mildness of the Mt. Desert climate in spite of its arctic flora, is to be found in a group of Japanese pines growing at one of the gateways north of the village of Bar Harbor, a tree so sensitive to cold that it is killed at the latitude of New York, which yet has lived on this island for twenty years without protection in winter."

In the remarks by Rand and Redfield on the plant distribution you will notice that an exception is made of the maritime flora, otherwise there is a "resemblance to the general flora of the White Mountain region." This is, to a large degree, equally true of the insects. The same trees and plants of the two places have the same insect enemies, and these insects in turn serve as hosts for the same parasites. The elevations of the island are not sufficient for the arctic-alpine forms of Mount Washington and the boreal species are more commonly found near the shores and in the vicinity of the lakes, cold spring runs, and bogs, the more sheltered and southern exposures probably harboring the greater number of austral species.

In regard to the distribution of aquatic insects, as pointed out by Dr. R. H. Howe, Jr.,⁴ cold bogs and ponds that are spring fed have less extremes in temperature than ponds that are not thus supplied with water. Thus he found boreal and austral dragon flies living together in the same pond far beyond their normal limits of distribution. The pond in question had a bottom temperature of 51° F. in summer and 36° F. in winter — a range of only 15°.

The distribution of most of the maritime insects is governed comparatively little by the corresponding vegetation, although the two frequently show a similar distribution. Temperature and a suitable environment are the principal factors. A low muddy shore with considerable marsh and pools of brackish water has an insect fauna of its own, and it is these species that often show a very wide distribution. To

⁴"The distribution of New England Odonata." *Proc. Boston Soc. Nat. Hist.*, vol. 36, p. 110, 1921.

the proximity of the ocean with its modifying effect on the climate is apparently due this extension of southern species far beyond their normal habitat. On the other hand, cold currents produce conditions favorable to boreal species. The effect of the ocean on temperature is perhaps best shown at Sable Island.⁵ "A study of the temperature will show that there are no extremes of heat or cold on the island; that the highest temperature during the past four years was 78° and the lowest point reached by the thermometer during the same period was 5° above zero."



Sea Wall Bog with Western Mts. in distance

I am prompted to quote the paragraph above for the reason that the island has a great number of wet depressions found where glacial action has been the dominating formative agent. These range from the cedar swamps where the principal tree is arbor vitae to the ones locally called "sunken heath," "bottomless heath," etc., which are spring fed, and larch, spruce and the like dominate, with some maples. Brush such as *Myrica gale* and rank grasses begin in these.

⁵ "Sable Island with a catalogue of its vascular plants," by Harold St. John, Proc. Boston Soc. Nat. Hist., vol. 36, p. 52, 1921.



The Great Heath



The Toad Hole

Approaching sea level; swamps and "heaths" are formed where the water is fresh from the land drainage above or salt from the sea's penetration. Such a place is the bog back of Sea Wall and Great Heath in the northwestern part of the island, which is over 2 miles long and is a mile wide in one place. In these the vegetation is brush such as *Myrica gale*, *Kalmia*, and the like, while the floor of all of them is *Spagnum*. These places yield insects and at the same time, test one's endurance.



The Emery District

Although the Island had attracted the attention of botanists for years, and they had published the results, no one did so in the case of insects before the Survey, with the exception of an interesting page and a half on the tiger beetles.⁶ A number of butterflies obtained by various collectors visiting Mount Desert are mentioned in Scudder's great work.⁷

The late Prof. H. C. Fernald and his son, Dr. H. T. Fernald, collected many insects on the Island, which are now in the

⁶ "Cicindelidae of Mt. Desert, Maine," by Edw. Doubleday Harris. *Journal N. Y. Entom. Soc.*, vol. 9, p. 29, 1901.

⁷ "Butterflies of eastern United States and Canada," by Samuel H. Scudder, 3 volumes, 1959 pages, and 89 plates, 1889.

collection of the Massachusetts State College, Amherst, Mass.

In connection with their work on the New England fauna, the New England Society of Natural History, in 1918, selected the Island of Mt. Desert as a place for part of its summer work, this location presenting favorable conditions for a study of insects in relation to life zones, and Mr. Charles W. Johnson, Curator, spent from 10 days to 2 weeks on the Island each summer until 1926. We met and joined forces, which resulted in the publication of Part I of the Survey in 1927. Our intention was to continue the work together as soon as I was through with the first part of the marine work.⁸ His passing put an end to that happy association, but left me with the remembrance of one of the best informed and most attractive of naturalists.

LABORATORY

The main laboratory of the Survey is situated at Corfield on Frenchman's Bay. There, and at Penikese, 5 miles to the westward, light and other traps have been run for several years, from the beginning of May until the end of October. These are not the small traps, but rooms painted white, with glass louvres in the windows, and lights both outside and inside. These lights were changed both as to color and intensity and thus a great number of individuals were taken which, sorted out, yielded many species. Bait traps of different kinds were run constantly at both of these stations as well as at other parts of the Island.

CLASSIFICATION

This volume is a revision of the previous one to which has been added over 1100 additional species together with revi-

⁸ Biological Survey of the Mt. Desert Region Parts II, III, IV, V — The Marine Fauna, etc.



Penikese. The first work ever done on the fauna of the Island was done here.



The Laboratory

sions and the records that the past 8 years of field work and study have produced. It supersedes Part VI in every way.

From experience I believe that a faunal list should avoid any tendency toward being a catalogue and should confine itself to listing the species found with notes as to their habits, host plants, methods of capture and above all to give the proper identifications.

It is the responsibility of the author, and it is a real one, to be sure that the insects are rightly determined, and with that in mind every specimen listed has been passed upon by a specialist whenever there has been any doubt as to its identity. Moreover, all records have been rejected except a few which are known to be authentic and the material may be checked. Practically all of the material has been collected in the past 20 years and is either in the author's cabinets, in Washington, American Museum of Natural History, or in the collections of well known specialists. All species, with the exception of four from adjacent islands, have been taken on the main Island of Mt. Desert.

An exception is made in the Mallophaga and three species of bird flies (*Hippoboscidae*). To acquire actual records of these would necessitate shooting a large number of birds, the loss of which would not compensate for the little knowledge gained. As over 80% of the birds are infested by these parasites, a list of the species frequenting the more common birds of the Island can be depended upon to represent the approximate number of species. Through bird banding, considerable progress has been made in acquiring the various species of Mallophaga and some of the entries are already represented by collected material.

The users of Surveys might well be warned that the publication of one or more species as occurring in a region is obviously no proof that those are the only species in that particular group which do occur.

Keeping in mind that a recent date is not of as much importance as the scientific qualifications of the author, I have

thought it best to follow comprehensive works, because it provides uniformity, and to stick to one system until there is a revision of a family available to which students may be referred with confidence.

The Coleoptera follow the Catalogue of the Coleoptera of America, etc. by Charles W. Leng, and many of the specimens have been checked by Mr. C. A. Frost, Mr. K. F. Chamberlain, Mr. H. S. Barber and Mr. W. S. Fisher.

The Diptera are listed according to the Diptera of N. A. by Dr. C. H. Curran, who has determined the greater part of the material and reviewed the manuscript.

Exceptions are made in the Tipulidae, which have all been determined and the manuscript written by my friend, Dr. C. P. Alexander, the mosquitoes, which follow the works of Dr. Robert Matheson, who has kindly advised me, and the Tendipedidae, which conforms to the recent revision by Dr. Henry R. Townes, Jr., who has revised the manuscript.

The classification of the Arachnida, Acarina, etc. has been brought up to date through the kindness of Dr. W. J. Gertsch, who has determined all of the forms and read the manuscript.

For the Odonata I have used An Annotated List of the Odonata of Maine by Dr. D. J. Borror, *Can. Ent.*, vol. LXXVI, July, 1944.

The catalogue of the Hemiptera of N. A., etc. by E. P. Van Duzee, 1917, has been used for that Order, and the manuscript edited by Dr. R. I. Sailer, of the Bureau of Entomology, etc., Washington, with the exception of the Aphididae, which follows Dr. Edith M. Patch in the Hemiptera of Connecticut State Geological and National History Survey Bulletin 34, 1923. All of the aphid determinations are due to the kindness of Mrs. J. B. Adams of the Laboratory of Plant Pathology, Fredericton, N. B.

Dr. J. B. Watson of the College of Agriculture, University of Florida, has been most kind in determining the thrips, thus making it possible to include them.

The Macrolepidoptera follow the Check List of the Macrolepidoptera of Canada and the U. S. 1938 by Dr. J. McDunnough.

The Microlepidoptera follow the Check List of the Microlepidoptera of Canada and the U. S. 1939 by Dr. J. McDunnough, with the manuscript checked by Dr. A. E. Brower (Br.).

In the Hymenoptera, Dr. C. F. W. Muesebeck has been most kind and interested in getting this Order into proper shape. He has checked the Braconidae, and some of the other families, and arranged for the rest to be done.

The recent publication of the Catalogue of the Nearctic Ichneumonidae by Dr. H. K. Townes, Jr. was a happy event, for it permitted a proper listing of that large and important family. Dr. Townes very kindly helped with the synonymy and read the manuscript. He also helped with the sawflies. Dr. V. S. L. Pate helped revise these Families and also revised the Psammocharidae, Sphecidae and Chrysididae.

The abundance of the parasite wasps and the parasitic flies indicates a normal or balanced condition, these insects keeping in check the injurious species. The lady-beetles, lace wings, and syrphid flies, the great enemies of the plant-lice, are also abundant and largely instrumental in keeping these prolific and destructive insects within bounds. The rich insect fauna of Mt. Desert shows that we are still dealing in places with an almost undisturbed ecological condition. That this will not continue is apparent, for the gypsy moth is here and will be a major problem as well as the spruce sawfly, while the "parking" of the woods by removing trees, stumps, etc., will upset the balance still further. Introduced without their parasites and other natural enemies, the only immediate recourse is in spraying with the result that many of our native species disappear, the balance of nature is disturbed and the diversity and beauty of our insect fauna are gone. I shudder when I think of the result from indiscriminate use of D.D.T.

My purpose in making this list is to add to the general knowledge on the insect fauna of a part of the Northeastern section of this country.

SUMMARY OF INSECTS AND SPIDERS ON MOUNT DESERT ISLAND

	<i>Families</i>	<i>Genera</i>	<i>Species, etc.</i>
Thysanura	2	2	2
Collembola	1	1	1
Orthoptera	5	25	50
Neuroptera	7	14	35
Ephemera	7	16	44
Odonata	8	33	81
Plecoptera	2	9	31
Corrodentia	6	13	25
Mallophaga	4	19	180
Thysanoptera	3	7	9
Anoplura	3	6	6
Heteroptera	20	105	179
Homoptera	9	105	224
Coleoptera	75	534	1175
Strepsiptera	1	1	2
Mecoptera	1	1	5
Trichoptera	10	46	96
Lepidoptera (macro)	21	376	832
Lepidoptera (micro)	32	207	647
Diptera	63	599	1626
Siphonaptera	4	7	10
Hymenoptera	43	421	1107
Chelonethida	4	5	5
Araneida	15	94	184
Phalangida	1	4	7
Acarina	2	3	4
Totals	349	2660	6578

FIELD STATIONS

- 1 May 20-28 Corfield.
- 2 June 13-28 Road to Lakewood, old log.
- 3 June 13-28 Lake Wood, surface of lake.
- 4 June 13-28 Shack at Penikese, pine boards.
- 5 June 15-28 Laboratory.
- 6 June 13-28 Corfield at light.
- 7 Aug. 1-28 Near Eagle Lake.
- 8 June 18-28 Field on Breakneck Road, trap with molasses.
- 9 June 18-28 Breakneck Road, meat trap.
- 10 July 3-28 Corfield garden, flowers.
- 11 Aug. 13-28 Sand Beach. Orange and melon rinds at high water mark.
- 12 Aug. 10-27 Corfield.
- 13 Aug. 27 Traps of cantaloupe at Corfield.
- 14 Oct. 6-27 Stanley's Lobster Pound, Sea Wall. Old lobster, clam shells, and fish refuse.

- 15 Sept. 27 Traps of meat at Penikese.
- 16 Sept. 24-29 Penikese spruce grove, meat trap 3 feet high, 2 nights after 2 frosts.
- 17 June 13-27 Meadow on Breakneck Road, sweeping grass, sunny morning.
- 18 Oct. 8-28 Field east of Town Hill.
- 19 Oct. 2-28 Field east of Town Hill.
- 20 June 2-29 Penikese, apple blossoms just past.
- 21 Oct. 6-28 Patterson porch under cover. Spider webs under roof.
- 22 June 17-30 Corfield at light. Locust in bloom, quite warm.
- 23 June 14-31 Opp. Penikese. Hay ready to cut, daisies. sweeping.
- 24 July 15-31 Small road off Norway Drive. Warm, beating alder bushes.
- 25 Aug. 1-31 Abel's beside road. Goldenrod, fern, spirea, warm and fair, sweeping.
- 26 Aug. 1-31 Seal Cove school house. Goldenrod, alder, spirea, warm and fair, sweeping.
- 27 Aug. 1-31 Road from Long Pd. to Beech Hill. Raspberry and fern, warm and fair, sweeping.
- 28 Aug. 15-31 Cor. Middle Rd. and one to Town Hill. Goldenrod, flame flower, asters; heavy growth, cut over; warm.
- 29 Aug. 22-31 Road Somesville to Indian Point. Cut-over clearing; warm; sweeping.
- 30 Sept. 8-31 Abel's. Aster and goldenrod in bloom; sweeping.
- 31 Sept. 8-31 R. of Somesville-Indian Pt. Rd. Goldenrod, aster, cut-over clearing; sweeping.
- 32 Sept. 17-31 Lab. Vines on Lab. Hatch of flies; gentle rain; warm afternoon.
- 33 Sept. 18-31 S. W. Harbor ice pond. Under stones at edge of pond.
- 34 Sept. 19-31 E. side of road near Tarn. Meat trap.
- 35 Oct. 13-31 Field short distance up Breakneck Rd. Frosted vegetation A.M., warm, sweeping.
- 36 Sept. 10-31 Green Mt. Road. Traps, meat and fish.
- 37 Sept. 12-31 Corfield. Phlox in bloom. Light.
- 38 Aug. 12-31 Bay Shore Drive. Goldenrod, aster; sweeping.
- 39 Oct. 6-31 Paradise Hill Road top. Ferns, weeds, etc. Dry; sweeping.
- 40 June 15-32 Road Shea's Cor. to Norway Dr. The beetles were feeding and breeding on bushes. Very warm.
- 41 June 12-32 Lee property, upper part. Very warm.
- 42 June 9-32 Penikese. Beating; the flies were on oak.
- 43 July 5-32 Lab. Spruce logs cut 1930, collected Oct. 31. Hatched in lab.
- 44 July 16-32 Road near Witch Hole. Clover, raspberry, bracken, bright and clear; sweeping.
- 45 Aug. 6-32 Corfield light. Room at garage from Aug. 4th.
- 46 Aug. 6-32 Witch Hole. From pads and flowers yellow water lilies.
- 47 Aug. 7-32 Henderson stable. General foliage, beating.
- 48 Sept. 30-32 Center trail, Western Mt. Vegetation about dead. Clear and cool.
- 49 Oct. 3-32 Woods opp. Penikese. Decayed toadstools, dry and black.

- 50 Sept. 25-29 Fields in Eden. Aster, sweet fern, and the like. Frosted, warm day.
- 51 July 18-33 Hollow on road to Witch Hole. Spirea, fern, lupin, alder.
- 52 July 20-33 Green Mt. summit. Kalmia and bushes. Sweeping warm, sunny A.M.
- 53 July 19-33 Mt. Road at trail to Bubble Cliffs. Mould in dense woods. Meat trap.
- 54 Sept. 16-29 Somesville. Aster, solidago, fern, sweeping.
- 55 Sept. 16-29 Field E. side Breakneck Road. Solidago, sweeping.
- 56 Sept. 27-29 Field Beech Hill opp. Peabody. Potato field under stones.
- 57 Sept. 27-29 Field Beech Hill opp. Peabody. Potato field under stones.
- 58 Sept. 27-29 Blueberry field near Bridge. Blueberry after frost. Sweeping.
- 59 Sept. 19-29 Penikese spruce grove. Meat trap set for a month 4 ft. from ground.
- 60 Sept. 16-29 Penikese spruce grove. Meat trap.
- 61 Sept. 16-29 Side of road Somes Sd. Inlet. Solidago, aster, etc. last stages, sweeping.
- 62 Sept. 0-29 Gilpatrick Cove. Solidago, aster, raspberry, warm.
- 63 Aug. 25-29 N. of road, salt marsh, N. E. Branch. Bright, clear, and warm.
- 64 Aug. 23-29 N. E. Branch W. of brook. Bushes and pasture.
- 65 Aug. 22-29 Burnt Porcupine Isl. Rocks, logs turning. Clear and warm.
- 66 Aug. 21-29 Sal. Cove back of McFarland's. Milkweed, aster, etc. Light at night.
- 67 Aug. 16-29 Emery District Heath N. of road. Solidago and aster; warm and clear; sweeping edges.
- 68 Aug. 20-29 Sal. Cove back of McFarland's Sec. 28. Solidago, aster, etc. Sweeping, clear warm A.M.
- 69 Aug. 18-29 Corfield near dock. Night light. Cold for date.
- 70 Aug. 8-29 Opp. Penikese. Second crop clover. Sweeping. Clear and hot.
- 71 Aug. 8-29 Opp. Penikese. Dried grass.
- 72 July 27-29 Penikese. Sweeping grass and bushes around edge of field.
- 73 July 20-29 Road S. W. H. X. McKinley, left side. Sweeping.
- 74 July 25-38 Witch Hole Br. Rank vegetation in woods. Sweeping for crane flies with Alexander and Harrison.
- 75 May 30-28 Breakneck Rd. before bridge. Trees just in leaf. Violets, rhodora, just out.
- 76 May 30-28 Breakneck Rd. before bridge. Grass around pine and spruce logs.
- 77 May 30-28 Fawn Pond. Dead leaves on bottom.
- 78 June 1-28 Penikese. Apple blossoms in bloom. Warm and sunny.
- 79 June 4-28 Breakneck Rd. near pond. Warm, sunny A.M.
- 80 June 4-28 Lower Breakneck Road. Warm, sunny A.M.
- 81 June 8-28 Field on Sand Pt. X Sal. C. road. Lilaes out. Warm, sunny.
- 82 June 11-28 Road to Witch Hole. Meat traps.
- 83 June 11-28 Road to Lake Wood. Sweeping blueberry and low bushes.
- 84 June 11-28 Field on road to Lake Wood. Sweeping raspberry and grass.
- 85 June 15-28 Penikese. Warm. Bushes in bloom. Beating.
- 86 June 18-28 Path lower Breakneck Pd. Warm. Trees in full leaf. Flying in road.

- 87 Aug. 20-28 N. E. Branch near mouth. Intertidal, *Anurida maritima*; not very common, C. H. B.
- 88 Sept. 4-28 Penikese. Beating bushes, mostly alder.
- 89 Sept. 0-28 Sand Beach; sweeping grass, raspberry.
- 90 July 16-28 The Hop. Stones and rank grass and gull's nests.
- 91 June 22-28 Near Lake Wood. Logs.
- 92 June 23-28 Near Lake Wood. Cicindellids on road.
- 93 June 23-28 Witch Hole. In grass near meadow.
- 94 June 25-28 Sal. Cove, back of Card's.
- 95 June 25-28 Near Eagle Lake.
- 96 June 25-28 Sal. Cove, back of Card's. Hatched from fungus found under birch log.
- 97 July 7-28 Road Emery Dist. X Sal. Cove. Warm and sunny. Sweeping.
- 98 July 7-28 Bay Shore Drive. Warm and sunny; sweeping weeds.
- 99 June 12-29 Penikese. Full leaf after apple bloom, beating mostly oak.
- 100 July 27-38 Bubble Pond inlet. Warm, damp A.M. Sweeping crane flies with Harrison and Alexander.
- 101 July 28-38 Lower Breakneck Pond. Dark A.M., sweeping the bog with Alexander and Harrison.
- 102 Aug. 5-38 Clark Ridge. General vegetation; sweeping.
- 103 Aug. 15-38 Hunters Beach Brook, both sides from road to shore.
- 104 Sept. 10-28 Fields near Breakneck Dr. Sunny; sweeping.
- 105 July 5-28 In jar where *Malacosoma* were raised.
- 106 June 0-28 Town Hill collected June 1st, one-half grown; stopped eating June 30th. Cocoons July 2nd; hatched July 20th.
- 107 July 30-28 Sal. Cove — Card's in grass, by sweeping.
- 108 July 30-28 Corfield in grass.
- 109 July 20-28 Corfield around porch.
- 110 July 30-28 Clark Cove near Morris Camp. Grass.
- 111 Aug. 8-29 Shore along Sea Wall. Rank grass, gale, sweet fern.
- Sept. 10-28 Corfield near Lab. Many flying. First time seen.
- 112 Sept. 10-28 Morell Park. Solidago, asters, etc.
- 113 Sept. 19-28 Abandoned house on Norway Drive, beetle and hymen nest under board.
- 114 Sept. 19-28 Morell Park. Solidago, asters, etc.
- 115 Sept. 19-28 Near Rhodora Meadow, skating on puddle in road.
- 116 Sept. 22-28 Field back of Eden Fair Grounds. Solidago, etc.
- 117 Aug. 25-28 Corfield in grass.
- 118 June 24-29 Abandoned house Norway Drive, 3 P.M., dark and foggy, sweeping.
- 119 July 27-29 Eden at curve; S. side of road, sweeping grass and weeds.
- 120 July 4-29 Field S. end Norway Dr. White daisy, paint brush, etc. Cool and windy, bright.
- 121 June 26-29 Long Poreupine, breaking up rotten logs, mostly birch.
- 122 Aug. 10-28 Long Poreupine under stones when cutting path.
- 123 Sept. 25-28 Saw mill ground beyond Indian Point Sec. 15, sweeping various bushes, etc.
- 124 June 13-27 Penikese, sweeping meadow, P.M.

- 125 July 19-33 Hollow on road to Witch Hole. Spirea, lupin, roses, etc. Sunny and warm.
- 126 July 27-33 Ireson Hill, top where excavated under stones and wood.
- 127 Sept. 15-33 Near Henderson stable. Meat trap.
- 128 Sept. 27-32 Paradise Hill road at top, breaking up yellow toadstools.
- 129 Oct. 5-32 Pond Ireson Hill, spring fed, sweeping with sieve.
- 130 Oct. 7-32 Edge Gt. Heath beside road, sweeping, warm afternoon.
- 131 July 14-33 New Mill Pond. Moths on lily pads; beetles in yellow, but not white lilies.
- 132 July 24-33 Penikese. Lupin, grass, etc. on blossoms.
- 133 Sept. 24-33 Middle Rd. before branch to Town Hill, on swamp carrot blossoms.
- 134 Sept. 26-33 Field E. of Middle X Town Hill Rds. sweeping. Warm, sunny.
- 135 Sept. 29-33 New Mill Meadow, sweeping. Warm, sunny.
- 136 Aug. 1-33 Cross Rd. to Sal. Cove swamp. Carrot blossoms.
- 137 Sept. 30-33 Pond Ireson Hill, seraping.
- 138 Aug. 5-33 Green Mt. road, blossoms of spirea mostly.
- 139 Aug. 5-33 Green Mt. road. Meat trap set for a week.
- 140 July 15-33 Penikese, sweeping.
- 141 Aug. 7-33 Filter-beds. Solidago.
- 142 July 25-33 Green Mt. road. Meat trap set for a week.
- 143 Aug. 12-33 Road New Mill Meadow X Half Moon Pond, sweeping at side of road.
- 144 Aug. 15-33 Road Eagle Lake X N. E. H. near drained pond, sweeping, warm P.M.
- 145 Aug. 15-33 Somesville X Town Hill Rd. N. of brook, sweeping beside road, warm P.M.
- 146 Aug. 16-33 Path Breakneck Rd. X Fawn Pond. Goldenrod, spirea, etc. Warm, sunny A.M.
- 147 Aug. 17-33 Witch Hole. Still and warm, boat, white water lilies.
- 148 Aug. 19-33 New Mill Meadow X Half Moon Pond Rd., Dark, damp day.
- 149 Aug. 21-33 Cedar swamp Eagle Lk. X N. E. H. Rd. Moss, rotten logs in dark swamp. Meat trap.
- 150 Aug. 21-33 Sand pit on Sargent Drive — sand, some solidago, netting and digging.
- 151 Aug. 28-33 Saw Mill ground near Indian Pt. Sec. 15 — sweeping, warm and cloudy.
- 152 Sept. 6-33 Norway Drive, hollow along brook, beating bushes, overcast, warm P.M.
- 153 Aug. 31-33 Sand pit on Sargent Drive — meat trap.
- 154 Sept. 13-33 Western Mt. lower half of Center Trail — aster, alder, fern, beating and sweeping all day.
- 155 Sept. 14-33 Blair property. Meat trap from Aug. 25th.
- 156 Sept. 14-33 Entrance to Abel's. Meat trap on burnt-over land.
- 157 Aug. 10-33 Penikese wood shed. Trap, baited with bacon.
- 158 Sept. 23-33 Abandoned farm near Mt. D. X Tremont line. Grove young poplars; beetles swarming.
- 159 Sept. 23-33 Shore W. of Sea Wall, warm clear A.M. Solidago, aster.

- 160 Oct. 2-33 Wood road at Marshwood, warm, damp A.M.
- 161 Oct. 3-33 Pretty Marsh — field of *Heracium*, flying fast and feeding.
- 162 Oct. 8-33 Lab. at light.
- 163 Oct. 4-34 Saw mill land Sec. 15 — under bark of old logs.
- 164 Oct. 2-34 Green Mt. Dike's Peak — ants flying along side of plantation
Pinus banksiana (Br.).
- 165 Apr. 25-36 North end Eagle Lake — first catkins 50% after snow and
freezing previous day.
- 166 Apr. 25-36 Near head Otter Creek, first catkins 50% after snow and
freezing previous day.
- 167 June 4-36 Section 39 — sweeping bushes, etc. Warm A.M.
- 168 June 6-34 Ireson Hill, top where excavated. Very hot.
- 169 June 25-34 Abandoned farm Shea's Cor. X Norway Drive. Grape vines,
spirea, warm and sunny.
- 170 July 3-34 Abandoned farm Shea's Cor. X. Norway Drive. Spirea. Warm
and clear.
- 171 May-Jun. 37 Ireson Hill. An excavated spot which is stony and wet in
the spring.
- 172 July 31-34 Corfield. Melon bait.
- 173 Aug. 2-34 Morris Camp. Sec. 31. Spirea, marsh grass, bones, etc., warm
sunny A.M.
- 174 July 27-34 Penikese in hollow. Sweeping bushes. Warm and dry.
- 175 Sept. 1-34 Sec. 28. Sweeping. Clear, cool, solidago, etc.
- 176 Sept. 3-34 Swamp back of beach opp. Rummell Isl. W. side. Weeds,
cranberry, beach pea, warm P.M.
- 177 Sept. 3-34 Beginning of Indian Pt. Rd. Solidago, aster. Warm A.M.
- 178 Aug. 15-34 Brook flowing into Eagle Lake S. W. end. Under stones,
brook nearly dry.
- 179 Aug. 24-34 Robinson Mt. path from W. side, beating bushes, clear and
windy.
- 180 Aug. 12-34 Narrows. Brackish pool, swimming on bottom.
- 181 Sept. 3-34 Sec. 18, under wet log in brackish swamp.
- 182 Sept. 3-34 Edge of Gt. Heath. Sec. 11. Weeds and swamp grass.
- 183 Sept. 3-34 Sec. 15, yellow birch log.
- 184 Sept. 13-34 Sec. 19. Meadow, sweeping, warm P.M.
- 185 Sept. 20-34 Middle Rd. beyond Lake Wood Rd. Meat trap.
- 186 Sept. 1-34 Pool L. side of road before N. E. Branch, scraping bottom
and reeds.
- 187 Aug. 7-34 New Mill Pond, skinning top of water.
- 188 Aug. 25-27 McKinley swamp near bridge, swamp rushes.
- 189 Sept. 8-33 Laboratory, swarming on grape, virginia creeper, and actinidae.
- 190 June 2-35 Eagle Lake to Bubble Br., swamp, cedars, violets, ferns just
in leaf, bright, clear.
- 191 June 6-35 Road Breakneck to Witch Hole and around latter. Trees and
ferns just in full leaf. Warm sultry A.M.
- 192 June 6-35 Same as 191.
- 193 June 12-35 New Mill Pond, spatterdock just out, wading, hot P.M. Fe-
males laying.

- 194 June 12-35 Witches Hole X Breakneck, sweeping and netting. Warm A.M. after rain.
- 195 June 14-35 Bubble Pond. Blackberries in bud. C. P. A. and Harrison for crane flies.
- 196 June 16-35 Breakneck Brook from road to top. Full spring. C. P. C. and Harrison.
- 197 June 17-35 Canada Brook. Brook ruined by C. C. C. boys. C. P. A. and Harrison.
- 198 June 18-35 New Mill Meadow and Witches Hole, flying along road. C. P. A. and Harrison.
- 199 June 22-35 Somes Sound Inlet; full spring, C. P. A. and Harrison, warm A.M.
- 200 June 24-35 Duck Brook, warm, *Chauliodes serricornis* swarming. C. P. A. and Harrison.
- 201 June 28-35 Breakneck Rd. to Witches Hole, full June, damp and warm.
- 202 June 29-35 Pond beside Indian Pt. X Somesville Rd. Rushes, netting. Very warm P.M.
- 203 July 2-35 Witches Hole, flying over pond A.M.
- 204 July 2-35 New Mill Pond, flying over marsh, A.M.
- 205 July 12-35 New Mill Pond, white lilies just out. Collecting Grinidae, also rocks at dam for Dryops.
- 206 July 12-35 Witches Hole Creek, heavy and dark, turning stones for Dryops.
- 207 July 18-35 Brook from Eagle Lake dam to road.
- 208 July 23-35 Section 20. Fern, spirea, grass; very hot and sultry.
- 209 July 27-35 Brook at B. H. X Mt. Desert line W. side. Ferns mostly. Clear and warm.
- 210 July 29-35 Marshwood, sweeping fern, kalmia, bayberry. Warm and clear.
- 211 July 30-35 Carriage road Bubble Br. to Chasm Br. Sweeping all day, warm and bright.
- 212 July 31-35 Dugout peat swamp on S. W. H. X Seal Cove road. After Dytiscus larvae that were eating trout. Beetles just hatched. With Br.
- 213 Aug. 3-35 Path E. from foot of Breakneck Rd. Ferns, grass, swamp wooded.
- 214 Aug. 7-35 Seal Cove B. Wild carrot and ferns.
- 215 Aug. 9-35 Seal Cove B. Wild carrot.
- 216 Aug. 24-35 Abel's. Rank and green weeds. Warm and clear.
- 217 Aug. 29-35 Top of Breakneck Br. Turning stones, brook very low.
- 218 Sept. 3-35 Deer Br. from Jordan Pond to top. Rock brook with low water, very steep, dense dark woods.
- 219 Sept. 11-35 Bay Shore Drive. Solidago, white aster, etc. Clear, sunny.
- 220 Sept. 15-35 Canon Brook from top to bottom. Very dry after drought, moss dead. All specimens taken between 1000 and 800 alt.
- 221 Sept. 19-35 Bay Shore Drive. Warm after rain. Sweeping misc.
- 222 Sept. 23-35 Brook and cedar swamp at Mt. D. X B. H. line W. side. Ferns, spagnum, etc., clear, temp. 50.
- 223 Sept. 24-35 Woods N. S. de M. Spring. Ferns, moss, etc., for crane flies.
- 224 Sept. 23-35 Corfield cellar, in fire wood.

- 225 Oct. 4-35 Inlet of Bubble Pond. Swamp, clear and warm.
- 226 Oct. 5-35 Gt. Heath. Out in the heath, Br.
- 227 Oct. 5-35 Gt. Heath. Woods around N. side, Br.
- 228 Oct. 8-35 Somesville X N. E. H. road at Brown Mt. path. Clear after freeze night before.
- 229 Oct. 6-35 Breakneck Br. at top. Overcast, sweeping sides; ferns almost gone.
- 230 Oct. 6-35 Breakneck Br. E. of road. Heavy wooded swamp.
- 231 Oct. 8-35 Sand Pit Sargent Dr. Sweeping; clear after heavy frost.
- 232 Oct. 10-35 Duck Brook. Warm day, after frost.
- 233 Oct. 1-35 North shore of Eagle Lake. Meat trap in moss.
- 234 Oct. 17-35 Marshwood, sweeping open places after frost.
- 235 Oct. 17-35 Marshwood. Manure piles in fields.
- 236 May 11-35 Bar Harbor Br. Willow catkins.
- 237 May 25-35 Rhodora Meadow. Warm and bright; Rhodora not yet in bloom; flying.
- 238 Oct. 1-35 Bubble Brook. Ferns nearly dead; warm and sunny.
- 239 Oct. 2-35 Woods around Sunken Heath Norway Drive. Ferns drying up. Warm.
- 240 May 11-35 B. H. Br. Willow catkins.
- 241 Apr. 21-34 Old Beaver Dam, Br. From willow catkins.
- 242 Apr. 21-34 Camp Grounds, Br. From willow catkins.
- 243 June 13-36 Road by Half Moon Pond. Full early foliage. Warm A.M. after rain.
- 244 June 18-36 Half Moon Pond. sweeping shore of pond.
- 245 June 19-36 Hunters Beach Brook. sweeping ferns, etc.
- 246 June 21-36 Corfield. Cantaloupe bait, very rotten.
- 247 July 2-36 Mouth Bubble Brook. Ferns, blackberry, etc. Warm, sweeping.
- 248 July 3-36 Small brook near Camp grounds. Ferns, etc. Sweeping for crane flies.
- 249 July 3-36 Eagle Lake Carry. Ferns and grasses, sweeping along brook.
- 250 July 16-36 Stanley's at Sea Wall, sweeping mixed. Noon.
- 251 July 18-36 Mouth Bubble Brook, ferns, sweeping P.M.
- 252 July 18-36 Tremont X Mt. Desert Line. Woods, ferns, sweeping.
- 253 July 18-36 Tremont X Mt. Desert Line. Woods, stream, A.M.
- 254 July 15-36 Camp Grounds, sweeping.
- 255 July 21-36 Bay Shore Drive. Spirea, wild carrot. Tabanids in road.
- 256 July 20-36 New Mill Meadow. Spirea, lupin and mixed. Sweeping, warm A.M.
- 257 July 22-36 Jordan Pond Trail, breaking up rotten white birch logs.
- 258 July 22-36 New Mill Meadow, mixed, sweeping. Hot A.M.
- 259 July 26-36 Eden Fair Grounds. Warm and clear A.M. after storm. Wild roses beside road.
- 260 July 28-36 Road near Indian Point on flowers of wild fennel. Warm A.M.
- 261 July 30-36 Mouth Bubble Brook. Thistle, warm A.M.
- 262 July 30-36 Hunters Beach. Grass and weeds. P.M.
- 263 Aug. 4-36 See. 23 beside road. Spirea, warm.

- 264 Aug. 10-36 Road Witches Hole and Half Moon Pd. Goldenrod. Very hot A.M.
- 265 Aug. 18-36 Wood road E. of Fenno entrance. Cut-over and group-up land. Warm and clear.
- 266 Aug. 21-36 Breakneck Dr., top. Meat traps.
- 267 Sept. 5-36 Sand Pit, Sargent Dr. Noon to 2 P.M., insect hovering over burrows.
- 268 Sept. 5-36 Highbrook Road opp. McIntosh. Sweet fern, solidago, aster, A.M., sweeping.
- 269 Oct. 5-37 McKinley Swamp, with A. E. B., sweeping marsh grass at dusk.
- 270 Oct. 5-37 Bernard opp. Abel's, sweeping blueberry and scrub. Flat bugs in pine stump.
- 271 June 6-38 Bald Mt. West side of Island, sweeping blueberry flowers and wild cherry blossoms. P.M.
- 272 June 9-38 Ireson Hill, wet spot with stones. Carabidae.
- 273 Aug. 27-38 Half Moon Pd. Brook. Cool windy evening. Sweeping.
- 274 Sept. 10-38 Richardson Brook.
- 275 Sept. 10-38 Brook at Somesville.
- 276 Sept. 10-38 Seal Cove Brook.
- 277 June 23-37 Section 23, fresh cut logs various kinds. Warm A.M.
- 278 June 23-37 Section 23, beating mixed trees and bushes.
- 279 July 12-37 Head of Somes Sound, on flowers of Bidens?
- 280 July 18-37 Lower Breakneck Pond, sweeping bog in P.M.
- 281 July 28-37 The Tarn, on Nymphaea advena.
- 282 July 28-37 The Tarn, on Pontederia cordata.
- 283 July 29-37 Bass Harbor Head, feeding on Spirea sp.
- 284 Aug. 14-37 Witches Hole Brook, small heavily shaded under stones in roots and moss.
- 285 Aug. 22-37 Bartlett's Isl. Landing Pretty Marsh, turning stones at top of shore with Brower.
- 286 Aug. 22-37 Center Schoolhouse, swamp opp., searching spagnum moss with Brower. Very hot.
- 287 Aug. 28-37 Witches Hole Brook, same as 284, but more grass roots.
- 288 Sept. 19-37 Section 11, sweeping goldenrod and other fall herbage.
- 289 Sept. 22-37 Newport Meadow, sweeping goldenrod, grass, etc. Clear A.M.
- 290 Sept. 30-37 Western Mt. Summit. Blueberry and low bushes. Clear with frosts.
- 300 Apr. 25-36 Around Breakneck, beating catkins; cold and windy.
- 301 Apr. 25-36 Lower Breakneck, catkins, cold and windy.
- 302 May 16-39 Brook from Upper to Lower Breakneck for Gyrinidae. Freezing previous night. Buds just showing.
- 303 May 17-39 Somes Brook, same conditions as above.
- 304 May 19-39 Rhodora Meadow. Buds but no leaves.
- 305 May 24-39 Center. Pool beside road. Cold.
- 306 May 24-39 Somes Pond, north shore.
- 307 May 24-39 Swamp opp. Long Pond, northeast end.
- 308 May 23-39 Along Middle Road beating catkins. First warm day.
- 309 May 29-39 Ireson Hill. Wet spot turning stones.

- 310 May 30-39 Inlet Lower Breakneck Pond.
- 311 May 31-39 Upper Breakneck Pond.
- 312 May 31-39 Lower Breakneck Pond. Warm.
- 313 May 31-39 Brook between Breakneck Ponds.
- 314 June 3-39 Pool at Nurseries. Warm and sunny.
- 315 June 3-39 Outlet of Hogdens Pond. Sunny.
- 316 June 8-39 Manset ice ponds. Warm.
- 317 June 10-39 Manset ice ponds. Meat trap.
- 318 June 29-39 Shea's Corners. Brook choked with vegetation.
- 319 July 3-39 Small swamp southeast end Jordan Pond.
- 320 July 5-39 Upper Breakneck, south end.
- 321 July 5-39 Pool at Town Hill. Spring fed 100 yds. square surrounded by
Typha.
- 322 July 6-39 Northeast end of Long Pond.
- 323 July 6-39 Toad Hole Outlet.
- 324 July 6-39 Ripple Pond Outlet. Shallow and all reeds. Small species in
reeds.
- 325 July 6-39 Swamp across from northeast end of Long Pond. Flooded and
full of brush.
- 326 July 10-39 Denning Pond. Shallow. Around shore.
- 327 July 10-39 Denning Brook. Between above and Echo lake. Swift stream.
- 328 July 10-39 Small pool on Marshall Brook.
- 329 July 12-39 Witches' Hole, north end.
- 330 July 12-39 Road Duck Brook to Witches' Hole, sweeping daisies, etc.
Warm and clear.
- 331 July 13-39 The Tarn, north and east sides.
- 332 July 13-39 Seal Harbor Pond.
- 333 July 18-39 The Nurseries. Sweeping. Warm A.M.
- 334 July 18-39 Newport Meadow. Sweeping.
- 335 July 19-39 Eden. Sweeping cut-over land. Very rank vegetation.
- 336 July 22-39 Newport Meadow. Sweeping.
- 337 July 26-39 Northeast end of Long Pond, where road turns to Toad Hole.
Ferns in shade.
- 338 July 26-39 Toad Hole around edges.
- 339 Aug. 1-39 The Barcelona, sweeping saw grass.
- 340 Aug. 3-39 Wood road to Sunken Heath.
- 341 Aug. 3-39 Toad Hole.
- 342 Aug. 6-39 Road beside Witch Hole Brook.
- 343 Aug. 7-39 Witch Hole Brook. Rank grass and ferns.
- 344 Aug. 16-39 Round Pond for Gyrinids. Clear A.M.
- 345 Aug. 16-39 Sunken Heath. Water in center.
- 346 Aug. 18-39 Little Round Pond for Gyrinids.
- 347 Aug. 24-39 Brook back of Somesville. Very warm.
- 348 Aug. 28-39 Seal Wall Bog. Gyrinids in pools. Others stamped from
Sphagnum. Clear.
- 349 Aug. 24-39 Cross road at Eden. General sweeping.
- 350 Aug. 28-39 Long Pond in boat, northeast end. All beetles in vegetation.
Warm A.M.

- 351 Aug. 28-39 Long Pond in boat, northwest end. Same as above.
- 352 Aug. 30-39 Somes Pond outlet. Below dam at very low water.
- 353 Aug. 30-39 Somes Brook. Swift water, upper part.
- 354 Sept. 1-39 Seal Cove Pond. Southwest part in boat. Dense patches in reed. Clear P.M.
- 355 Sept. 1-39 Seal Cove Pond. Northwest part. Same as above.
- 356 Sept. 1-39 Indian Point. Small pool near road.
- 357 Sept. 4-39 The Tarn. South end. Warm P.M.
- 358 Sept. 4-39 Hadlock Pond. Small stream with vegetation. Warm P.M.
- 359 Sept. 13-39 Long Pond at Great Brook inlet. Large numbers. Perfect day.
- 360 Sept. 13-39 Long Pond, small shallow bay. Same September clear day.
- 361 Sept. 13-39 Long Pond inlet from Round Pond.
- 362 Sept. 13-39 Mansett Ice Pond. Very low.
- 363 Sept. 13-39 Manett Lower Pond. Large masses of *Dineutes* in center.
- 364 Sept. 16-39 Lower Breakneck. Very low water. Clear and warm.
- 365 Sept. 19-39 Seal Cove Pond. Inlet brook. Clear and cold.
- 366 Sept. 19-39 Seal Cove. Swamp flooded by beavers. S. W. H. road.
- 367 Sept. 21-39 Long Pond, northeast end. Clear and warm.
- 368 Sept. 21-39 Toad Hole. Several patches north side.
- 369 Sept. 21-39 Reeve Pond. Large numbers *Gyrinidae*.
- 370 June 6-40 Brook between Breaknecks. Clear after many dark days.
- 371 Aug. 14-40 The Bowl. All on north side under bushes.
- 372 Aug. 16-40 Mansett Ice Pond. North side.
- 373 Aug. 16-40 Same as above.
- 374 Aug. 21-40 Brook, south of road Section 11 with Alexander, Harrison and Brower. Clear.
- 375 Aug. 22-40 Sea Wall Bog with Alexander and Harrison. Clear A.M.
- 376 May 20-41 Along Eagle Lake Road. Beating shad bush. Bright afternoon.
- 377 June 12-41 Penikese. Sweeping buttereups and daisies just in bloom.
- 378 June 13-41 Marsh edge of road Long Pond.
- 379 June 13-41 Pools in gravel pit Pretty Marsh Road.
- 380 June 13-41 Marsh near Sunken Heath Brook.
- 381 June 23-41 Seal Harbor Brook. Cool afternoon.
- 382 July 5-41 Brook east of Section 20 with Brower. Brook dry. Beetles in mud.
- 383 July 6-41 Great Heath, southeast part. Very dry.
- 384 July 7-41 Where Great Heath touches Middle Road. Trees and always shaded.
- 385 July 29-41 Same as 383. Very dry. Few beetles.
- 386 July 31-41 Great Heath. Many black duck feeding.
- 387 Aug. 1-41 Opposite Penikese. Spruce stumps cut 40-41. Bark worked various times.
- 388 Aug. 14-41 About opposite Sunken Heath. Marsh very dry. Working for *Hydrochus*.
- 389 Aug. 25-41 Great Heath. Small patches in 383.
- 390 Aug. 26-41 Toad Hole Brook. Turning stones for Helמידs. Bright A.M.
- 391 Sept. 6-41 West road near Mt. Desert line. Cut over land 2 years. Bright after storm.

- 392 Sept. 13-41 West road near Tremont line. Spruce stumps 3 years. Bright after 40°.
- 393 July 24-42 Pool at Nurseries. Full of *Typha*.
- 394 Aug. 8-42 Great Heath same as 383.
- 396 Sept. 1-42 Rowed the estuary to bluff at end. Six hours. Over 300 black duck.
- 397 Sept. 1-42 Great Heath in main estuary. Collecting along edges.
- 398 Sept. 26-42 Nurseries. Beetles in wet ground. With Brower.
- 399 June 14-43 Hill near Shea's Corners. Sweeping hillside. Beautiful A.M.
- 400 June 23-43 Penikese. Beating. Perfect A.M.
- 401 June 24-43 Gravel pits Salisbury Cove. Poplar sprouts 3 feet high. Warm and clear.
- 402 Aug. 1-43 Norway Dr., north end in A.M., south end in P.M. with Brower.
- 403 Oct. 3-43 Opposite Hare Forest. Bright and warm. Asters and fall vegetation.
- 404 June 9-44 Breakneck to Half Moon Pond. Small brooks. Bright and fair with violets.
- 405 June 14-44 Along Witch Hole Brook. Perfect June morning.
- 406 June 27-44 Outlet of Bubble Brook. Very warm clear A.M. Blackberry in bloom.
- 407 July 7-44 North end Ocean Drive. Beating pine. Clear and warm.
- 408 July 19-44 Middle Road. Very clear. Bugs in seed heads of rushes.
- 409 July 31-44 Hill behind Building of Arts. Warm and clear A.M. Beating conifers.
- 410 July 31-44 Penikese. Very warm afternoon. Beating trees.
- 411 Aug. 8-44 Middle Road at Great Heath. Beating dead branches. Beautiful day.
- 412 Aug. 9-44 Beaver Pond on Norway Drive. Rank herbage.
- 413 Aug. 29-44 Town Hill cow dung for beetles.
- 414 Sept. 18-44 Foot of Newport Mountain. Damp spot with rank vegetation.
- 415 Sept. 23-44 Norway Drive. Sweeping mixed herbage.
- 416 June 9-45 Bubble Brook. Clear after weeks of dark weather.
- 417 June 12-45 Breakneck. Sweeping ferns along wood road at foot of hill.
- 418 June 13-45 The Tarn along brook.
- 419 June 15-45 Brook at Section 11.
- 420 June 22-45 Breakneck. Same as 417.
- 421 June 25-45 Penikese. Sifting for spiders. Cold and windy. Earth quite cold.

SECTIONS

In order to more clearly define collecting places, I have numbered different sections on the Island, and these are shown by number on map.

- 1 Corfield
- 2 North shore of Witch Hole Pond
- 3 Between main road and Witch Hole Pond

- 4 Pond at top of Ireson Hill
- 5 Summit of Green Mountain
- 6 Northeast Branch creek east of road to bridge
- 7 Section around 500 ft. level west side Western Mountain
- 8 Marsh near New Mill Meadow
- 9 Pretty Marsh Road north of turn
- 10 Section around Ship Harbor
- 11 Edge of Great Heath where it touches the Middle road
- 12 Green Mountain road east of White Cap
- 13 Sand pit between Sargent Drive and the main road to Northeast Harbor
- 14 West of West Road opposite Hodgdon Cove
- 15 Road Town Hill to Indian Point
- 16 South of Eagle Lake Road west of Eagle Lake
- 17 Marsh south of road between Southwest Harbor and McKinley
- 18 Small marsh back of shore near Rumill Island
- 19 Between Robbins Hill, Moose Island Bar and Reed point
- 20 Edge of swamp back of Salisbury Cove
- 21 Breakneck Road at the top
- 22 Seal Cove — S. W. Harbor road, west of Clark Ridge
- 23 Somes Sound — Bar Harbor road, N. E. of Somes Sound
- 24 New Mill Meadow to Half Moon Pond
- 25 Brook running into Somes Sound north of Bar Harbor X Mt. Desert town line
- 26 Abandoned farm on road to Norway Drive, south of Shea's corner
- 27 Road Indian Pt. to Great Pond opposite Oak Hill
- 28 Section opposite Penikese
- 29 Indian Pt. Road to opp. Little Round Pond
- 30 Norway Drive where altitude is about 200 ft.
- 31 Morris Camp near Negro Point
- 32 Section between New Mill Meadow and Breakneck Road
- 33 Along the Western Road opposite High Head
- 34 Back of the North end of Eagle Lake
- 35 Pine Hill on western slope of Western Mt.
- 36 North of Jordan Pond
- 37 Area just south of Long Pond
- 38 Between Sea Wall and The Hio
- 39 Along road east of Clark Ridge
- 40 West of Salisbury Cove cross road.

Class INSECTA

Order THYSANURA

LEPISMIDAE

THERMOBIA Bergroth

T. DOMESTICA Pck. Bar Harbor, May 18 (Br.).

CAMPODEIDAE

CAMPODEA Westwood

C. FRAGILIS Mein. Various places in damp wood. Bar Harbor, Sept. 26 (Br.).

Order COLLEMBOLA

PODURIDAE

ANURIDA Laboulbene

A. MARITIMA Guer. On sheltered seashore between tide marks. From the extended observations of R. W. Dexter it would appear that this insect is fully as important as a scavenger as any of the larger animals, especially in protected inlets and bays. See Jour. Econ. Ent. 36:(5):797 1943.

Order ORTHOPTERA

*In the upland pastures
The 'tettix are calling.
Clicking in the sunlight
As they wing their circling flight.*

BLATTIDAE. Cockroaches

BLATTA Linnaeus

B. ORIENTALIS Linn. In grocery store Bar Harbor.

BLATTELLA Caudell

B. GERMANICA (Linn.). The German Cockroach or Croton Bug is present in very large numbers owing to unsanitary conditions in some places.

PARCOBLATTA Hebard

P. sp. Found near Forest Service Lab. (Br.) and determined by Rehn. Sept. 17, '38.

NYCTIBORA Burmeister

N. LAEVIGATA Burm.? Market, S. W. Harbor (Mrs. Palmer). A West Indian species, probably introduced on bananas.

TETTIGONIIDAE. The Long-horned Grasshoppers

SCUDDERIA Stål

S. FURCATA FURCATA Brun. Fork-tailed Katydid. Occur generally in small numbers from the tops of the mountains to the low grounds from August to frost. General sweeping of bushes best method.

S. PISTILLATA Brun. Broad-winged or Pistillate Bush Katydid. Distributed like the above with the earliest record June 13.

S. CURVICAUDA BOREALIS R. & H. Northern Curve-tailed or Bush Katydid. Mt. Desert, Aug. 28 (Br.). Scarce.

S. TEXENSIS S. & P. The Texan Bush Katydid: Found near swamps and marshes. Appears in late afternoon, Sec. 20, Aug. 30. (Dethier).

NEOCONOCEPHALUS Karney

N. ENSIGER Harris. The Sword Bearer Conehead. Section 26 (Br.). Scarce.

ORCHELIMUM Serville

O. GLADIATOR Brun. Meadow Grasshopper. Meadow south of Eden, Aug. 9-11; Penikese, Aug. 2; Mt. Desert (Br.), Aug. 28. Not common.

- O. VULGARE* Harris. The Meadow Grasshopper. Found in dense vegetation where there is moisture. Sec. 20, Aug. 30 (Dethier).

CONOCEPHALUS Thunberg

- C. FASCIATUS* (DeG.). Slender Meadow Grasshopper. S. W. Harbor, Sept. 6. Station F184, Sept. 13. Occurs from July 15 to frost.
- C. BREVIPENNIS* (Scud.). Short-winged Meadow Grasshopper. Although the juveniles are found in June, the adults were not taken until about August first and from then until frost they are found sparingly.

ACRIDIDAE. The Short-horned Grasshoppers

CHLOEALIS Harris

- C. CONSPERSA* Harr. Sprinkled Locust. Long Pond, Aug. 21. Found sparingly in pastures.

ORPHULELLA Giglio-Tos

- O. SPECIOSA* (Scud.). Pasture Locust. Eden, Aug. 11; Penikese, July 31.

CHORTHIPPUS Fieber

- C. CURTIPENNIS* (Harr.). Meadow Locust. Common, July 16–Aug. 23.

MECOSTETHUS Fieber

- M. LINEATUS* (Scud.). Striped Sedge-locust. Meadow near Salisbury Cove; Breakneck Pond, Aug. 9–Sept. 8. Sections 17 and 20. It keeps to wet sedgy meadows where water stands on the ground.
- M. GRACILIS* Scud. Northern Sedge-locust. Great Heath; S. W. Harbor; Meadow Brook; Section 16; Shea's Corner, Aug. 6–Sept. 13.

CHORTOPHAGA Saussure

- C. VIRIDIFASCIATA* (DeG.). Green-striped Locust. Salisbury Cove, June 9. Not common.

CAMNULA Stål

- C. PELLUCIDA (Scud.). Clear-winged Locust. Common in dry upland pastures where there are tufts of grass in August.

DISSOSTEIRA Seudder

- D. CAROLINA (Linn.). Carolina Locust. Have taken juveniles from under stones and wood July 26 and the adults continue into Sept. Common on bare, sandy ground. Gray to cinnamon color variation.

CIRCOTETTIX Seudder

- C. VERRUCULATUS (Kby.). Snapping Locust. Abundant on the top of Green Mt. and so on down, especially on rocky pastures from July to frost.

PODISMA Latreille

- P. GLACIALIS (Scud.). Wingless Locust. An inhabitant of the moist zone of the mountains and the colder and damper part of the N.E. part of boreal New England. Damp bushy sphagnum bogs are the home of this most interesting animal. Near Witches' Hole (Br.), Sept. 30, '36.

MELANOPLUS Stål

- M. MEXICANUS ATLANTIS (Riley). Lesser Migratory Locust. Common, Aug. 13 until frost from top of Green Mt. to sea level.
- M. FASCIATUS (Walk.). Huckleberry or Banded Locust. Bar Harbor, Great Clearing; S. W. Harbor, June 10-Aug. 20.
- M. FEMUR-RUBRUM (DeG.). Red-legged Locust. Aug. and Sept. are the months for these. Sections 16, 17 and 20; Station F173 and F184.
- M. BOREALIS (Fieb.) Northern Meadow Locust. Eden; Bar Harbor, June 9-July 29.
- M. LURIDUS (Dodge). Broad-necked Locust. One specimen taken at Section 20 sweeping grass, Sept. 13.



M. BIVITTATUS (Say). Two-striped Locust. Bar Harbor; Narrows; S. W. Harbor, Aug. 13-20; Section 20; Station F38.

M. MANCUS (Smith). Smith's Locust. Common on the top of Green Mt., Aug. 17; Bar Harbor, Aug. 18; Sept. 12 (Br.).

ACRYDIDAE. The Grouse or Pygmy Locusts

NOMOTETTIX Morse

N. CRISTATUS CRISTATUS (Scud.). Crested Pygmy Locust. Bar Harbor; Eden; S. W. Harbor; June 13-Aug. 18. Stations F31, F48, and F210. An immature one taken Oct. 10. Common on light soils.

ACRYDIUM Geoffroy

A. GRANULATUM GRANULATUM Kby. Granulate Pygmy Locust. Bar Harbor, (Br.) May 4; Bar Harbor, June 8-13; Witches Hole, Sept. 20.

A. GRANULATUM var. *INCURVATUM* Hancock. Broad-shouldered Angulate Pygmy Locust. Beach Mt., 800 ft. Sept. 12 (Alexander).

A. SUBULATUM (Linn.). Bay Shore Drive, Aug. Not common.

A. SUBULATUM GRANULATUM (Linn.). Bar Harbor, (Br.) May 15-June 27.

A. ORNATUM Say. Ornate Pygmy Locust. Bar Harbor, June 27.

TETTIGIDEA

TETTIGIDAE Walker

T. PARVIPENNIS (Harr.). Sedge Pygmy Locust. Lives in wet sedgy meadows and must be searched for on one's hands and knees to be successful. At Station F286, Aug. 21.

CEUTOPHILUS Seudder

C. MACULATUS Harr. Spotted Cave-cricket. Found in damp places particularly in rotten stumps and under wood in the latter part of year. My records are mostly in Sept. and range from the mountain tops down.

- C. *NEGLECTUS* Scud. Yellow Cave-cricket. Mt. Desert, Aug. 8–Sept. 12 (Br.).
- C. *TERRESTIS* Scud. Woodland Cave-cricket. Probably fairly common but hard to find as its habitat is in dense woods. Long Pond, June 20.
- C. *BREVIPES* Scud. Short-legged Cave-cricket. Bar Harbor (Br.), May 11; Corfield, June 6–Sept. 9 under boards.
- C. *NIGRICANS* Scud. Yellow-bellied Camel Cricket. Bar Harbor, Aug. 19–Sept. 13 (Br.).

GRYLLIDAE. The Crickets

GRYLLUS Linnaeus

- G. *ASSIMILIS* (Fab.). Common Field-cricket. Common in the fields under stones and around buildings under boards. Earliest record for young is under bark Little Round Pond, July 21.

NEMOBIUS Serville

- N. *FASCIATUS FASCIATUS* (DeG.). Striped Grass-cricket. Bar Harbor; Narrows, Aug. 13–14. Bay Shore Drive meat trap, Sept. 11. Penikese, Oct. 3.
- N. *FASCIATUS SOCIUS* Scud. Found in damp fields where it occurs in numbers at times. Sec. 20, Aug. 30 (Dethier).
- N. *PALUSTRIS* Blatchley. Sphagnum Cricket. Common in Sphagnum bogs. Witch Hole Pond; Tremont, Aug. 18–23.
- N. *CAROLINUS* Scud. Carolina Ground Cricket. Bar Harbor, Aug. 14.

OECANTHUS Serville

- O. *NIGRICORNIS* Wlk. Dusky Tree-cricket. Section 15 sweeping goldenrod, etc., Sept. 6 and Sept. 16.
- O. *QUADRIPUNCTATUS* Beut. Four-spotted Tree Cricket. Found in bushy pastures and thickets. Sweeping *Solidago* opposite Penikese, Aug. 30 (Dethier).
- O. *PINI* Beut. Pine Tree Cricket. Frequents pine trees. Beating pine trees opposite Penikese, Aug. 30 (Dethier).

Order NEUROPTERA

SIALIDAE

SIALIS Latreille

S. INFUMATA Newh. Duck Brook; Echo Lake; Long Pond, June 13-20. Critical study by Dr. H. H. Ross has already shown sixteen species grouped previously under this name. See Illinois Natl. Hist. Survey, Vol. 21, Article 23.

S. VAGANS Ross. Mt. Desert (Br.). May 25.

S. sp. Eden, June 26, 1934. Scarce.

CHAULIODES Latreille

C. FASCIATUS Walk. Sieur de Monts Spring, Corfield, June 21. Scarce.

C. RASTRICORNIS Rham. Corfield at light, June 20-Aug. 10. Scarce.

C. SERRICORNIS Say. Bar Harbor; Jordan Pond; Echo Lake; Witch Hole (Br.) June 8-July 1.

Note: There is always a large hatch of these on Duck Brook. One occurred when I was there with Dr. Alexander and Mr. Harrison on June 23, 1935. I went up the brook the afternoon before to see if the hatch was on and there was not a single individual in sight. In 1934 it was on July 1 and on June 16 in 1937.

C. PECTINICORNIS Linn. Various places in Aug.

SISYRIDAE

SISYRA Burmeister

S. VICARIA Walk. Stations F337 and F339.

S. VICARIA var. *UMBRATA* Needh. S. W. Harbor, Sept. 3 (Alexander).

CLIMACIA McLachlan

C. AREOLARIS Hagen. Robinson Mt., Sept. 2 (Br.).

SYMPHEROBIDAE

SYMPHEROBIUS Banks

S. AMICULUS Fitch. N. E. Harbor, July 1-Aug. 10 (Minot).

HEMEROBIIDAE

HEMEROBIUS Linnaeus

- H. CONJUNCTUS Fitch. N. E. Harbor, Aug. 18.
H. CONJUNCTUS var. PINIDUMUS Fitch. Laboratory Sept. 13.
H. HUMULI Linn. N. E. Harbor, July 17 (Minot).
H. HYALINATUS Fitch. N. E. Harbor, Aug. 25.
H. MARGINATUS Steph. Echo Lake; Long Pond; Bar Harbor,
June 27–Aug. 10.
H. SIMPLEX Banks. N. E. Harbor, Sept. 23 (Minot).
H. STIGMATERUS Fitch. Robinson Mt., Corfield at light, June
28–Aug. 24. Station F337.
H. VENUSTUS Banks. N. E. Harbor, July 1–Aug. 29 (Minot).

BORIOMYIA Banks

- B. DISJUNCTA Banks. S. W. Harbor; N. E. Harbor, Aug. 24–
Sept. 27.
B. LONGIFRONS Walk. Common, June 10–Aug. 29.

MICROMUS Rambur

- M. ANGULATUS Steph. S. W. Harbor, June 24.
M. MONTANUS Banks. N. E. Harbor, Sept. 4 (Minot).
M. POSTICUS Walk. S. W. Harbor, Aug. 29 (Alexander).

POLYSTOECHOTIDAE

POLYSTOECHOTES Burmeister

- P. PUNCTATUS Fab. One from a collection in Bangor labelled
Bar Harbor Aug. 23. A very rare form as far north as this.

CHRYSOPIIDAE

CHRYSOPA Leach

- C. NIGRICORNIS Burm. Bar Harbor; Eden, July 10–Aug. 11.
C. OCULATA Say. S. W. Harbor; Eden, June 27–Aug. 22.
C. YPSILON Fitch. Eden, July 18.

MELEOMA Fitch

M. EMUNCTA Fitch. N. E. Harbor, Aug. 10.

M. SIGNORETTI Fitch. Duck Brook; Long Pond; N. E. Harbor (Minot), June 13-Aug. 11.

M. VERTICALIS. Bar Harbor, June 7-July 16.

EREMOCHRYSA Banks

E. HAGENI Banks. N. E. Harbor, July 13 (Minot).

CONIOPTERYGIDAE

CONIOPTERYX Curtis

C. GIDAE. Somes Sound Inlet, June 23 (Alexander). Rare.

C. VICINA Hagen. Echo Lake, July 12; Bar Harbor, Aug. 11-16 (Br.).

CONWENTZIA Enderlein

C. HAGENI Bks. Beating pine lower Breakneck, Aug. 21.

Order EPHEMERIDA

EPHEMERIDAE. The May Flies

The proper way to collect this order is to wade up brooks gently sweeping the vegetation on either side, just at dusk, or to work around the edges of ponds at the same time. Whenever there is a strong wind blowing across a pond and a hatch is on, the flies will be carried to the leeward side and often to a considerable distance, and sweeping and examining trunks of trees along the edge of the pond will produce results. Dr. H. T. Spieth tells me that the tendency of the flies when leaving the brook is to go toward the dark, and that the males will go up the side of cliffs to a considerable height.

EPHEMERA Linnaeus

E. SIMULANS Walk. Echo Lake, July 17-Sept. 7.

LEPTOPHLEBIDAE

HABROPHLEBIA Eaton

- H. VIBRANS Needh. Duck Brook; Bar Harbor, June 18; Duck Brook, July 3 (Spieth).

HABROPHLEBIODES Ulmer

- H. AMERICANA Banks. Duck Brook; Bar Harbor, June 13-Aug. 18.

LEPTOLEBIA Westwood

- L. CUPIDUS Say. Bald Mt. evidently blown from Seal Cove Pond, June 6.
L. JOHNSONI McD. Bar Harbor, June 11-July 1.
L. NEBULOSUS Wlk. Record of capture lost.
L. sp.

PARALEPTOPHLEBIA Destage

- P. DEBILIS Wlk. Great Heath, Oct. 5 (Br.).
P. MOLLIS Eaton. Duck Pond, July 3 (Spieth).
P. VOLITANS McD. Duck Brook, Echo Lake and Ripple Pond outlet, July 3-4 (Spieth).

CHOROTERPES Eaton

- C. BASALIS Banks. S. W. Harbor (Br.) May.

EPHEMERELLIDAE

EPHEMERELLA Walsh

- E. DEFICIENS Morgan. Duck Brook and Ripple Pond outlet, July 3-4 (Spieth).
E. DOROTHEA Ndm. June 12 (Br.).
E. FUNERALIS McD. Witches Hole, June 22.
E. TEMPORALIS McD. Duck Brook, Hulls Cove and Echo Lake, July 3-4 (Spieth).
E. sp. Bar Harbor, June 7-July 1 (Br.).

CAENIDAE

CAENIS Stephens

- C. AMICA Hagen. Gt. Heath, Aug. 22.
C. sp. Duck Brook, July 3 (Spieth).

BAETIDAE

BAETIS Leach

- B. PLUTO McD. Duck Brook, July 3 (Spieth).
B. PYGAEMUS Hagen. Duck Brook, July 3 (Spieth).
B. sp. Bar Harbor, Aug. 2 (Br.). Duck Brook, July 3 (Spieth).

CALLIBAETIS Eaton

- C. AMERICANA Banks. The Tarn, May 23-June 4; Bar Harbor, July 8; Great Heath, Aug. 22 (Br.).
C. HAGENI Eaton. Bar Harbor, July 1-Sept. 7 (Br.). Great Heath, Aug. 22.
C. FLUCTUANS Walsh. Aug. 17 (Br.).
C. FERRUGINEUS Walsh. Bar Harbor, July 29.

CLOEON Leach

- C. RUBROPICTUM McD. Echo Lake, July 4 (Spieth).
C. sp. Echo Lake.

SIPHILONURIDAE

AMELETUS Eaton

- A. LUDENS Ndm.? Bar Harbor, May 25 (Br.).

SIPHILONURUS Eaton

- S. TYPICUS Eaton (BERENICE McD.). Bar Harbor, July 6 (Br.).
S. MIRUS Eaton. Green Mt., June 10 (Br.).
S. QUEBECENSIS Prov. June 18 (Br.).
S. sp.

HEPTAGENIIDAE

HEPTAGENIA Walsh

H. HEBE McD. Duck Brook, July 3 (Spieth).

IRON Eaton

- I. PLEURALIS Banks. Bar Harbor, May 17 (Br.).
I. FRAGILIS Morgan. Hulls Cove Brook, July 3 (Spieth).
I. VITREA Wlk. (HUMERALIS Morgan). Duck Brook, July 3 (Spieth).

STENONEMA Traver

- S. CANADENSE Wlk. Eagle Lake, Sept. 2 (Br.).
S. FUSCUM Clemens. Bar Harbor, June 15 (Br.).
S. MEDIOPUNCTATUM McD. Bar Harbor, June 13; Duck Brook, July 3 (Spieth).
S. RUBROMACULATUM Clemens. Duck Brook, July 3 (Spieth).
S. RUBRUM McD. Duck Brook, July 3 (Spieth).
S. TRIPUNCTATUM Banks. Sept. 5 (Br.).
S. INTERPUNCTATA. One specimen showing the complex but unidentifiable, Echo Lake, July 4 (Spieth).
S. sp. Duck Brook, July 31.

Order ODONATA

ZYGOPTERA

AGRIIDAE

AGRION Fabricius

- A. MACULATUM Beauvais. Long Pond; Eagle Lake; swamp at Eden; Seal Cove Brook, mating Aug. 7. June 30-Aug. 10.

LESTIDAE

LESTES Leach

- L. CONGENER Hagen. This whole genus prefers marshes and secluded streams to the open ponds. Brook and cedar swamp West Side at Bar Harbor by Mt. Desert line, Sept. 22. Rare.

- L. DISJUNCTUS* Selys. Bar Harbor, July 29.
L. DRYAS Kirby. Mt. Desert, 1927 (Johnson).
L. EURINUS Say. Sea Wall Bog, July. Scarce.
L. FORCIPATUS Rambur. Bar Harbor, July 24. New Mill Pond, Aug. 29. Frequents secluded spots.
L. RECTANGULARIS Say. Mt. Desert, 1941 (Ahrens).
L. UNCATUS Kirby. Bar Harbor; S. W. Harbor, July 13-29.
L. UNGUICULATUS (Hagen). A pond and marsh form. Sea Wall, Aug. 24-Sept. 8.
L. VIGILAX Hagen. Witch Hole, June 13. Not common.

COENAGRIIDAE

ARGIA Rambur

- A. MOESTA* (Hagen). Long Pond, June 20; Outlet Eagle Lake; Bubble Brook, July 18-20. Along rocky shores and streams.
A. VIOLACEA (Hagen). Eagle Lake, July 18. Bubble Brook, July 20.

NEHALENNIA Selys

- N. IRENE* (Hagen). Flies in secluded places and stays close to home. Bar Harbor; Witch Hole Pond; S. W. Harbor, Pond beside Indian Point-Somesville Road, June 11-Aug. 10.

CHROMAGRION Needham

- C. CONDITUM* (Hagen). Seems to prefer small ponds. Bar Harbor, June 11.

ENALLAGMA Charpentier

- E. ASPERSUM* (Hagen). Somes Pond, Aug. 2. Ripple Pond and Toad Hole, Aug. 5-21.
E. BOREALE Selys. Breakneck Road; Witch Hole, June 6. Common.
E. CIVILE (Hagen). Another common all summer species.

- E. CYATHIGERUM* (Charp.). A common widely distributed form.
- E. EBRIUM* Hagen. This species travels far from the ponds. Common.
- E. EXSULANS* (Hagen). A stream species. N. E. Harbor (Merrill).
- E. HAGENI* (Walsh). A very common form which occurs at times in great abundance from the first of June to the last of August.
- E. MINUSCULUM* Morse. Echo Lake, July 12. Scarce here and no females taken.
- E. VESPERUM* Calvert. Mt. Desert, 1941 (Ahrens).

ISCHNURA Charpentier

- I. VERTICALIS* (Say). Common from the first of June to September.

*ANISOPTERA**GOMPHIDAE**HAGENIUS* Selys

- H. BREVISTYLUS* Selys. A form that is on brooks. Brook from Toad Hole.

OPHIOGOMPHUS Selys

- O. RUPINSULENSIS* (Walsh). Eagle Lake, 1918 (Howe).

GOMPHUS Leach

- G. (GOMPHUS) EXILIS* Selys. Witch Hole Pond; Bar Harbor, June 6–July 30. Common about ponds.
- G. (GOMPHUS) SPICATUS* Hagen. Witch Hole Pond; Bar Harbor, June 11–July 30. Same habitat as above.

DROMOGOMPHUS Selys

- D. SPINOSUS* Selys. Mt. Desert, 1941 Ahrens.

LANTHUS Needham

L. ALBISTYLUS (Hagen). Mt. Desert, 1941 Ahrens.

L. PARVULUS (Selys). Mt. Desert, 1941 Ahrens.

AESCHNIDAE

GOMPHAESCHNA Selys

G. FURCILLATA (Say). Prefers to "hawk" along roads adjacent to ponds. Breakneck to Witch Hole road, June 7. Common.

BASIAESCHNA Selys

R. JANATA (Say). Common at New Mill Meadow, Witch Hole and other ponds and streams in early summer.

BOYERIA McLachlan

B. VINOSA (Say). They fly up and down woodland brooks. Seal Cove Brook, Sept. 8.

ANAX Leach

A. JUNIUS (Drury). Various places back of south shore of the island in September. Hatched in laboratory Aug. 28.

EPIAESCHNA Hagen

E. HEROS (Fab.). Mt. Desert, 1941 (Ahrens).

AESCHNA Fabricius

A. CANADENSIS Walk. Its habitat is the marsh from June 15. Bar Harbor, Aug. 16.

A. CLEPSYDRA Say. Mt. Desert, 1921 (Howe).

A. EREMITA Scudder. Gt. Heath, July 17; The Barcelona, July 27.

A. INTERRUPTA Walk. Witch Hole, Oct. 10.

A. SITCHENSIS Hagen. Sea Wall, 1941 (Ahrens).

A. UMBROSA Walk. Frequents shady brooks. Bar Harbor, Aug. 10; N. E. Harbor, Sept. 6 (Merrill). Bubble Br., Oct. 1.

CORDULEGASTERIDAE

CORDULEGASTER Leach

- C. DIATATOPS* (Selys). On all the streams during the warm weather. S. W. Harbor, June 20.
C. MACULATUS Selys. Another form that patrols streams. Outlet Eagle Lake; Bubble Brook, June 16, July 20.

CORDULIIDAE

MACROMIA Rambur

- N. ILLINOIENSIS* Walsh. Mt. Desert, 1941 (Ahrens).

DIDYMOPS Selys

- D. TRANSVERSA* (Say). A wide ranging form that is common on all parts of the island from the middle of June to August.

TETRAGONEURIA Hagen

- T. CYNOSURA* (Say). Echo Lake, July 12. A strong flying form over ponds.
T. SPINIGERA Selys. Breakneck Road; Witch Hole, June 6-12. A northern form.

HELOCORDULIA Needham

- H. UHLERI* (Selys). A bog loving species and flying from June to the end of July.

SOMATOCHLORA Selys

- S. ELONGATA* (Scudder). One specimen taken, Breakneck Rd., June 16, '35 (Alexander). Rare.
S. FORCIPATA (Scudder). Echo Lake, 1941 (Ahrens).
S. KENNEDYI Walker. Echo Lake, 1941 (Ahrens).
S. MINOR (Calvert). Mt. Desert, 1941 (Ahrens).
S. TENEBROSA (Say). Mt. Desert, 1941 (Ahrens).
S. WALSHII (Scudder). Mt. Desert, 1941 (Ahrens).
S. WILLIAMSONI (Walker). Mt. Desert, 1941 (Ahrens).

CORDULIA Leach

C. SHURTLEFFI Scudder. These fly around the boggy edges of ponds. Bar Harbor; Witch Hole; June 6–July 29.

DOROCORDULIA Needham

D. LEPIDA (Hagen). Found around the boggy borders of ponds from the first of June to August.

D. LIBERA (Selys). Same as that above.

WILLIAMSONIA Davis

W. FLETCHERI Will. Witches Hole, June 6, '35. A northern form and first record from Maine. See article by Dr. B. E. Montgomery, Ent. News, Vol. LIV, No. 1.

LIBELLULIDAE. The Skimmers

NANNOTHEMIS Brauer

N. BELLA (Uhler). Witch Hole Pond, June 13. Lower Breakneck Pond, July 8.

CELITHEMIS Hagen

C. ELISA Hagen. Flies around the edges of ponds. Witch Hole; Hulls Cove, June 15–Aug. 18.

C. MARTHA Will. Taken at Gt. Heath and the Breakneck Ponds, Aug. 15–21.

LIBELLULA Linnaeus

L. (EOLIBELLULA) SEMIFASCIATA Burm. An early form that frequents the brooks.

L. (LADONA) EXUSTA Say. Witch Hole Pond; Long Pond, June 13–26. On the ponds.

L. (LADONA) JULIA Uhler. Sea Wall Bog, Aug. 15.

L. (LIBELLULA) QUADRIMACULATA Linn. June the first to August on ponds as well as brooks.

L. (NEOTETRUM) PULCHELLA Drury. Stations F366 and F384.

L. (PLATHEMIS) LYDIA Drury. An all summer form that stays on the ponds. Bar Harbor, June 11–July 20.

SYMPETRUM Newman

- S. COSTIFERUM (Hagen). Bar Harbor, Aug. 18. Not as common as the above.
- S. DANAE (Sulzer). Great Duck Island, 1941 (Ahrens).
- S. INTERNUM Montgomery (*DECISUM* Hagen). A common mid-summer form on ponds with good vegetation. Found on the wet meadows.
- S. OBTRUSUM Hag. Narrows; Witch Hole Pond, Aug. 13-18. Feather Bed alt. 1000, Sept. 14.
- S. SEMICINCTUM (Say). New Mill Meadow, Aug. 20; Witch Hole, Aug. 15-Sept. 5.
- S. VICINUM (Hagen). Bar Harbor, Aug. 10. Sec. 28, Oct. 17. A beautiful autumnal species.

LEUCORRHINIA Brittinger

- L. FRIGIDA Hagen. Echo Lake; Witch Hole Pond, June 13-July 30. Common.
- L. GLACIALIS Hagen. Echo Lake; Beaver Dam; Witch Hole; New Mill Meadow, June 18-July 24.
- L. HUDSONICA (Selys). Canada Brook, June 17; New Mill Meadow, June 18; Witch Hole, July 2; New Mill Pond, July 2.
- L. INTACTA (Hagen). Common from the first of June to August 1.
- L. PROXIMA Calvert. Witch Hole Pond; Bar Harbor; New Mill Pond; Indian Point, June 11-July 24.

PANTALA Hagen

- P. FLAVESCENS (Fab.). A widely distributed species in small numbers all summer.

Order PLECOPTERA

This family is of course collected along brooks. The same brook should be visited at least every ten days during the season so that the hatches of the different genera may be collected.

PERLIDAE. The Stone-flies

PERLA Geoffroy

P. IMMARGINATA Say. Duck Brook, Aug. 18.

P. MEDIA Walk. Long Pond, June 25-27.

P. sp. Long Pond, June 15.

ALLOPERLA Banks

A. IMBECILLA Say. Breakneck Br., Duck Br. Sea Wall Bog, June 16 (Alex.).

A. LATERALIS Banks. Valley Cove, Breakneck Br., June 16. Canyon Brook, June 23-July 25 all (Alex.) Bar Harbor, June 15-July 20.

A. MARGINATA (Banks). Breakneck Br., June 16 (Alex.).

A. MEDIANA Banks. Bar Harbor, June 14. Echo Lake, June 22. Breakneck Brook, June 16 and Canyon Brook, June 23 (Alex.).

A. PALLIDULA (Banks). Same as above.

CHLOROPERLA Newman

C. CYDIPPE Newm. Echo Lake, July 12. Duck Br., June 16.

ISOPERLA Banks

I. BILINEATA Say. Duck Brook; Breakneck Brook, June 16 (Alexander).

I. MONTANA Banks. Bar Harbor, June 8. Duck Brook, June 16, Breakneck Brook, June 16 (Alexander).

PERLINELLA Banks

P. DRYMO Newm. Jordan Pond, June 16.

P. n.sp. Valley Cove, June 19 (Alexander).

ACRONEURIA Pietet

A. ABNORMIS Newm. Corfield at light, July 6, 1936. Scarce.

A. LYCORIAS Newm. Long Pond, July 20.

A. PENNSYLVANICA (Rambur). Record of capture lost.

NEMOURIDAE

NEMOURA Latreille

- N. COMPLETA* Wlk. Record lost Apr. 13. (Br.).
N. PROLONGATA Clssn. Canyon Br.; Valley Cove, June 19-23 (Alex.).
N. PUNCTIPEXNIS Clssn. Canyon Brook, June 23 and Valley Cove, June 19 (Alexander).
N. SERRATA Claas. Bar Harbor, June 8.
N. SINUATA Wu. Breakneck Brook, June 16; Canyon Brook, June 23 (Alexander).
N. VENOSA Banks. Long Pond, Witch Hole Brook and Bubble Pond, June 27-July 25 (Alexander). Seal Harbor Brook, Aug. 22.
N. sp. Bar Harbor, May 25 (Br.). Bar Harbor, June 7; Witch Hole Brook, July 12.
N. n.sp. Valley Cove, June 19 and Canyon Brook, June 23 (Alexander).

LEUCTRA Stephens

- L. DECEPTA* Clssn. Valley Cove, Bubble Pond, Breakneck Brook, and Canyon Brook, June 19-July 26 (Alexander).
L. DUPLICATA Clssn. Duck Brook, Bubble Pond, and Canyon Brook, June 16-July 25 (Alexander).
L. GRANDIS Bks. Breakneck Brook and Duck Brook, June 16 (Alexander). Reported previously from North Carolina.
L. TENUIS Pictet. Duck Brook, Aug. 22.
L. TRUNCATA Clssn. Duck Brook, Aug. 22.
L. sp. S. W. Harbor, June 20; Bar Harbor, June 23.

STROPHOPTERYX Freson

- S. (TAENIOPTERYX) FASCIATA* (Burm.). Record of capture lost.

Order CORRODENTIA

PSOCIDAE

PSOCUS Latreille

- P. CONFRATERNUS* Banks. S. W. Harbor; Duck Brook, Aug. 20-Sept. 11.

- P. LEIDYI* Aaron. Beach Mt., Sept. 12 (Alexander).
P. MOESTUS Hag. S. W. Harbor, Aug. 26–Sept. 12 (Alexander). Reared from larch Aug. 20.
P. NOVAESCOTIAE Walk. Common July 30–Sept. 12.
P. QUIETUS Walsh. S. W. Harbor; Beach Mt., Aug. 31–Sept. 12 (Alexander).
P. POLLUTUS Walsh. S. W. Harbor; Beach Mt., Aug. 26–Sept. 12 (Alexander).
P. SLOSSONAE Banks. S. W. Harbor; Beach Mt., Aug. 31–Sept. 12 (Alexander).
P. sp. near *SLOSSONAE* Bks. May be n.sp. In U.S.N.M. Station F340.

GRAPHOPSOCUS Kolbe

- G. CRUCIATUS* Linn. Bar Harbor, June 17–25.

MESOPSOCIDAE

ELIPSOCUS Hagen

- E. CANADENSIS* Prov. Long Pond; Seal Cove; Bar Harbor, Sept. 7–10.
E. UNPUNCTATUS Müll. Station F407.

PHILOTARSUS Kolbe

- P. n. sp.* (Chapman). S. W. Harbor; Beach Mt., Aug. 31–Sept. 12 (Alexander).
P. sp. Beaten from spruce Station F409. In U.S.N.M.

PERIENTOMIDAE

ECHMEPTERYX Aaron

- E. HAGENI* Pack. Station F287, Aug. 28.

TROGIDAE

LIPOCELIS Motschulsky

T. DIVINATORIUS Müll. On old white birch leaves.

LEPTINOTUS Heyden

L. INQUILINUS Heyd. Reared from old white birch leaves (Br.) Dec.

CAECHLIIDAE

CAECHILIUS Curtis

C. AURANTIACUS Hag. Echo Lake; Witch Hole Pond; S. W. Harbor, July 21–Sept. 12. Flying in the evening at Corfield, Oct. 22.

C. sp. Beach Mt., Sept. (Alexander).

LACHESILLA Westwood

L. sp. Bar Harbor (Br.), Aug. 7.

POLYPSOCUS Hagen

P. CORRUPTUS Hag. Bar Harbor; S. W. Harbor, July 12–Sept. 12.

PERIPSOCUS Hagen

P. MADESCENS Walsh. S. W. Harbor (Alexander); Long Pond, Aug. 26–Sept. 9.

P. MADIDUS Hag. Witch Hole Pond; S. W. Harbor; Beach Mt., July 30–Sept. 12.

MYOPSOCIDAE

LICHENOMIMA Enderlein (*Myopsocus* Hagen)

L. LUGENS Hag. Salisbury Cove, July 15.

L. SPARSUS Hag. Duck Brook, Aug. 18.

Order MALLOPHAGA

MENOPONIDAE

MENOPON Nitzsche

- M. ABNORME Piaget. Occurs on gallinules.
 M. ALASKENSE Kell. & Chap. On pine grosbeak.
 M. BISERATUM Piaget. On many gallinaceous birds.
 M. CARDUELIS Denny. On the goldfinch.
 M. COLAPTIS Durrant. On the flicker.
 M. CROCATUM Nitz. On American woodcock and others.
 M. EXPANSUM. Osb. Occurs on bobolink.
 M. GALLINAE Linn. Common chicken louse.
 M. HIRSUTUM. Carr. & Shull. Carried by downy woodpecker.
 M. INTERRUPTUS Osb. Infests the crow.
 M. LEUCOXANTHUM Nitz. On black duck.
 M. LONGICEPHALUM Kell. Carried by pigeon.
 M. PACHYPUS Piaget. Described from tern (*Sterna hirundo*).
 M. PALLIDUM Nitz. The hen louse of domestic fowls.
 M. PUSTULATUM Nitz. On the gannet.
 M. RIDIBUNDUM Denny. On many gulls.
 M. STRAMINEUM Nitz. Infests domestic fowls.
 M. TRIDENS Nitz. On coots and others.
 M. sp. On dickcissel, chickadee and others.

COLPOCEPHALUM Nitzeli

- C. DOLIUM. Rudow. Described from grebe.
 C. FLAVESCENS Nitz. Found on many hawks.
 C. FUSCIPES Piaget. Infests various gulls.
 C. HALIAETI Denny. Found on the osprey.
 C. LARI Pack. Described from great black-backed gull.
 C. LATICEPS Kell. Found on herons and bittern.
 C. NYCTARDE Denny. Same as above.
 C. OCHRACEUM Nitz. On pectoral and other sandpipers.
 C. OCULARIS Carr & Shull. On ruddy turnstone.
 C. PICEUM Denny. Found on great black-backed gull.
 C. PUSTULOSUM Piaget. Infests belted kingfisher.

- C. QUADRIMACULATUM Carr. Infests red crossbill.
C. SUBAEQUALE Nitz. Infests crows.
C. SUBPACHYGASTER Piaget. Occurs on great horned owl.
C. SUBPUSTULATUM Carr. & Shull. Described from kingfisher.
C. TURBINATUM Denny. Occurs on pigeons.

MYRSIDEA Waterston

- M. AMERICANA Kell. On common crow.
M. CRASSIPES Piaget. Occurs on Baltimore oriole.
M. CUCULLARIS Nitz. On the starling.
M. DISSIMILIS Kell. On tree and barn swallows.
M. GONOPHAEA Nitz. Occurs on the raven.
M. INCERTA Kell. Occurs on various passerines.
M. INTERRUPTA Osb. Found on common crow.
M. MELANORUM Kell. Described from towhee.
M. MAJOR Piaget. Described from snowflake.
M. SUBAEQUALIS Lyonet. Infests crows and hawks.

TETROPTHALMUS Grosse

- T. INCOMPOSITUS Kell & Chap. On double crested cormorant.

DENNYUS Neumann

- D. DUBIUS Kell. Described from chimney swift.
D. TRUNCATUS Olfers. Also from chimney swift.

TRINOTON Nitzsch

- T. LITURATUM Nitz. On merganser and other waterfowl.
T. MINUS Osb. Described from scooter.
T. QUERQUEDULAE Linn. On domestic duck and also wild.

PSEUDOMENOPON Mjöberg

- P. PACIFICUM Kell. Found on grebes and coot.
P. TRIDENS. Record of capture lost.

LAEMOBOTHRIDAE

LAEMOBOTHRION Nitzsch

- L. NIGRUM Burn. Occurs on coots.
L. TINNUNCULI Linn. Occurs on many hawks.
L. TITAN Piaget. Found on eagles.

RICINIDAE

RICINIS DeGeer

- R. ANGULATUS Kell. Described from kingbird.
R. ARCUATUS Kell. & Mann. Also from above.
R. FRENATUS Nitz. Described from golden crowned kinglet.
R. HASTATUS Osb. A collection from junco.
R. LEPTOSOMUS Carr. Occurs on kingbird.
R. LINEATUS Osb. On ruby throated hummingbird.
R. MERULAE Durrant. A collection from robin.
R. PICTURATUS Carr. Occurs on warblers.
R. TITORACICUS Pack. Described from snowflake.

TRICHODECTIDAE

TRICHODECTES Nitzsch

- T. BOVIS Linn. Occurs on cattle.
T. CANIS DeGeer. Occurs on dogs.
T. CASTORIS Osb. Occurs on beaver.
T. EQUI Linn. Occurs on horses.
T. MEPHITIDIS Pack. Described from skunk.
T. OVIS Linn. Occurs on sheep.
T. PARALLELUS Osb. Occurs on deer. Large lots from some deer.
T. QUADRATICEPS Chap. Described from raccoon.
T. SUBROSTRATUS Nitz. Numerous on cats.
T. VULPIS Denny. Occurs on the fox.

PHILOPTERIDAE

GONIODES Nitzsch

- G. DAMICORNIS Nitz. Occurs on pigeon.
G. TETRAONIS Linn. Occurs on grouse. Two lots from Bar Harbor (Br.).

GONIOCOTES Burmeister

- G. BIDENTATUS Scop. Infests pigeons.
G. GIGAS Tasch. Occurs on hen and guinea fowl.
G. HOLOGASTER Nitz. Called the Lesser Chicken Louse.

LIPEURUS Nitzsch

- L. CAPONIS Linn. The Variable Chicken Louse.
L. HETEROGRAPHUS Nitz. Chicken Head Louse.

PHILOPTERUS Nitzsch

- P. AGELAII Osb. Described from red wing blackbird.
P. ALIENUS Kell. Occurs on flicker.
P. AURITUS Scop. On the hairy woodpecker.
P. BISETOSUS Piaget. On red-breasted merganser.
P. BUBONIS Osb. On the great horned owl.
P. BUTEONIS Pack. On the red-shouldered hawk.
P. CALVUS Kell. On murre. A lot from Brunnich's murre (Br.).
P. CEBLEBRACHYS Nitz. On the snowy owl.
P. COLYMBINUS Denny. On common loon.
P. CORVI Osb. On the crow.
P. CURSOR Nitz. Occurs on many owls.
P. DENTATUS Scop. On many kinds of ducks.
P. DISTINCTUS Kell. On the American raven.
P. EVAGANS Kell. On the downy woodpecker.
P. FUSCOVENTRALIS Osb. Described from woodpeckers.
P. FUSIFORMIS Drury. Infests knot and sandpipers.
P. GONOTHORAX Giebel. On herring gull, loon and grebes.
P. GRAVICEPS Kell. Occurs on coot.
P. HALIETI Osb. On bald eagle, Bar Harbor (Br.).
P. INCISUS Kell. On bluebird and cedar waxwing.
P. JUGENS Kell. Occurs on the flicker.
P. MAJOR Waterston. Occurs on Wilson's snipe.
P. MELANOCEPHALUS Nitz. Infests terns.
P. MERGULI Denny. Infests dovkie. Two lots from lower end of Island (Br.).

- P. MIGRATORII* Peters. On the robin.
P. MIRINOTATUS Kell. & Chap. On the junco.
P. MONACHUS Kell. & Paine. Described from rail.
P. NAEVIUS Giebel. On the golden eagle.
P. NUDIPES Piaget. On the barn owl.
P. PLATYSOMUS Nitz. Found on sharp shinned and other hawks.
P. PROCAX Kell. & Chap. Occurs on guillemot.
P. PUSTULOSUS Nitz. Occurs on parasitic jaeger.
P. QUADRATICEPS Kell. Occurs on coot.
P. QUISCALI Osb. On the crows.
P. REGULI Denny. On kinglets.
P. ROSTRATUS Nitz. Described from bluebird.
P. SIALIS Osb. Infests bluebirds as name indicates.
P. SUBFLAVESCENS Geof. On many perching birds. From a purple finch and white-throated sparrow (Br.).
P. SUPERCILIOSIS Nitz. Recorded from downy and other woodpeckers.
P. SYMII Pack. On the barred owl.
T. TAUROCEPHALUS Kell. Eastern redtailed and rough-legged hawks.
P. TEMPORALUS Giebel. On many shore birds.
P. TRANSPOSITUS Kell. Occurs on the cowbird.
P. sp. From the ruffed grouse.

DEGEERIELLA Neumann

- D. ACTOPHILA* Kell. & Chap. Described from sanderling.
D. ALCAE Denny. Occurs on the dovkie.
D. AMBLYS Kell. Described from bald eagle.
D. AMERICANA Kell. & Chap. Found on grebes.
D. BICOLOR Piaget. Found on cedar waxwing.
D. BRACHYTHORAX Giebel. Same as above.
D. CEDORUM Piaget. Same as above.
D. COMPLEXIVA Kell. & Chap. Found on sanderling.
D. CYCLOTHORAX Nitz. Infests English sparrow.
D. DISCOCEPHALA Nitz. Occurs on bald eagle.
D. DOMESTICA Kell. & Chap. Described from barn swallow.

- D. EUSTIGMA Kell. Found on various warblers.
- D. FURVUS Nitz. Found on yellow legs and others.
- D. FUSCA Nitz. On hawks and eagles.
- D. GULOSA Nitz. Found on the brown creeper.
- D. ILLUSTRIS Kell. Occurs on red-winged blackbird.
- D. LATIROSTRIS Burm. Occurs on black-billed cuckoo.
- D. LIMBATA Nitz. Found on the crossbills.
- D. LONGA Kell. Described from eave and other swallows.
- D. MAGNOCEPHALA Carr. Described from woodcock.
- D. MARGINATULA Harr. Described from piliated woodpecker.
- D. NEBULOSA Burm. Infests starlings and robins.
- D. OCULATA Rudow. On great horned owl.
- D. OPACA Kell. & Chap. Described from semipalmated plover.
- D. ORNATA Grube. Infests various gulls.
- D. ORNATISSIMA Giebel. Found on red-winged blackbird.
- D. ORPHEA Osb. Described from catbird.
- D. PALLIDULA Harr. Described from rose-breasted grosbeak.
- D. PRAESTANS Kell. Occurs on terns.
- D. PUNCTATA Nitz. On various gulls.
- D. RAVA Kell. Described from spotted sandpiper.
- D. ROTUNDATA Osb. Described from crow.
- D. SECONDARIA Osb. Same as above.
- D. SIMPLEX Kell. Described from robin.
- D. STRAMINEA Denny. On flicker and hairy woodpecker.
- D. TYRANNA Osb. On the kingbird.
- D. VULGATA Kell. Same as above.

RALLICOLA Johnston and Harrison

- R. ADVENA Kell. Occurs on coot.
- R. CUSPIDATA Scop. Same as above.

ORNITHOBIUS Denny

- O. GONIOPLEURUS Denny. From Canada goose.
- O. MATHISII Neumann. Occurs on domestic ducks.

ESTHIOPTERUM Harrison

- E. ANSERIS Linn. Occurs on geese.
 E. ARDEA Linn. Occurs on herons and bitterns.
 E. BOTAURI Osb. On the American bittern.
 E. COLUMBIAE Linn. On the pigeons.
 E. CRASSICORNE Scop. Occurs on many ducks.
 E. INFUSCATUM Nitz. Occurs on woodcock.
 E. LONGICORNE Piaget. On double-crested cormorant.
 E. LURIDUM Nitz. On coots.
 E. MACROCEPHALUM Kell. Occurs on night hawk.
 E. MERGI-SERRATI DeGeer. Occurs on mergansers.
 E. sp. near PELAGICUM Denny. Two collections from Leach's
 petrel.
 E. THORACICUM Piaget. On bufflehead duck.

GIEBELIA Kellogg

- G. MIRABILIS Kell. Occurs on many petrels.

Order THYSANOPTERA. Thrips

AEOLOTHIRIPAE

AEOLOTHIRIPS Uzel

- A. FASCIATUS Linn. On "Butter and eggs" August.

THRIPIDAE

FRANKLINIELLA Karny

- F. TRITICI (Fitch). The northern flower thrips is very com-
 mon here.
 F. FUSCA (Hinds). Salisbury Cove, July 24.

THRIPS Linnaeus

- T. TABACI Lindm. On "Five o'clock," July 10; on *Rubus*
odorata Aug. 5.

HELIOTHRIPS Haliday

H. HAEMORRHOIDALIS (Bouché). The Greenhouse thrips is common here.

TAENIOTHRIPS Amyot and Serville

T. SIMPLEX Morison. The Gladiolus thrips is constantly being brought in on bulbs and is very common.

T. sp. A single specimen from double phlox, Salisbury Cove, June.

PHILOETHRIPIDAE

HAPLOTHRIPS Serville

H. LEUCANTHEMA (Schränk). On *Saponaria* sp. Salisbury Cove, Aug. 5.

ANTIOTHRIPS Uzel

A. VERBASCI Osb. Duck Brook, June 13.

Order ANOPLURA. The Sucking Lice

The arrangement follows, Ewing, 1929, A Manual of External Parasites.

HAEMATOPINIDAE

POLYPLAX Enderlein

P. SPINULOSA Burm. Bar Harbor, Nov. 12, on rat (Br.).

LINOGNATHUS Enderlein

L. PILIFERUS Burm. Bar Harbor, on a dog (Br.).

HAEMODIPSUS Enderlein

H. VENTRICOSUS Denney. Occurs on rabbits.

HAEMATOPINUS Leach

H. SCIUROPTERI? Bar Harbor, Sept. 7, on *Glaucomys sabrinus*, flying squirrel (Br.).

PEDICULIDAE

PEDICULUS Linnaeus

P. HUMANIS HUMANIS Linn. Bar Harbor, on man (Br.).

PHTHIRIDAE

PHTHIRUS Leach

P. PUBIS Linn. Bar Harbor, on man.

Order HEMIPTERA

Sub Order HETEROPTERA

SCUTELLERIDAE

HOMOEMUS Dallas

H. AENEIFRONS (Say). Common June 20–Sept. 15. Best taken by sweeping *Solidago*.

H. BIJUGIS Uhler. Station F414.

EURYGASTER Laporte

E. ALTERNATUS (Say). Sweeping in swampy places. Found on (*Carex*). S. W. Harbor; Eden; Stations F72 and F218, June 11–Sept. 3.

STYGNOCORIS Douglas & Scott

S. PEDESTRIS (Fall.). Bay Shore Drive; Station F182; Station F218. A new record for Maine.

CYDNIDAE

Some of the species in this family live under stones, leaves, etc., and some are myrmecophilus. They are of black or brown color.

CORIMELAENA White

C. PULICARIA (Germar). Bar Harbor; Salisbury Cove (Salford), Aug. 10. Frequents the fruits and flowers of raspberry, blackberry, etc.

GALGUPHA Amyot and Serville

G. ATRA A. & S. Occurs in small numbers in many places and best taken by general sweeping.

AMNESTUS Dallas

- A. PUSILLUS Uhl. One taken at Salisbury Cove cross road under stone, Sept. 24.

SEHIRUS Amyot and Serville

- S. CINCTUS (Palisot de Beauvois). Common June until frost. Under a stone in a potato field on Beech Hill, Sept. 27, 1929, I found large numbers in all stages from the bright red bodied nymph to adult. Wild raspberry is the favorite plant.

PENTATOMIDAE

A family of many species which are best collected by paying particular attention to their food plants which are listed with them.

SCIOCORIS Fallén

- S. MICROPHthalmus Flor. A rare Palearctic species taken but once. S. W. Harbor, Aug. 1, 1887 (Fernald).

PERIBALUS Mulsant and Rey

- P. LIMBOLARIUS Stål. Feeds on goldenrod and other plants. Eden, June 9; S. W. Harbor, July 20.

CHLOROCHROA Stål

- C. PERSIMILIS Horvath. Willow, juniper, etc. Stations F58, F112, F116, F231 and other places on lupin, willow, alder from June 15-Oct. 8.

MORMIDEA Amyot and Serville

- M. LUGENS (Fab.). Witch Hole, Sept. 20, sweeping *Solidago*. Also feeds on *Verbascum*. Not common.

EUSCHISTUS Dallas

- E. EUSCHISTOIDES (Voll.) (*E. fissilis* Uhl). Abundant in the fall and taken by sweeping goldenrod, clover, etc. Hibernates as an adult. Bar Harbor, July 20-Aug. 13.

E. TRISTIGMUS (Say). Bar Harbor; Witch Hole; Tremont, June 15–Sept. 20. Feeds on pine, elder, mullein, goldenrod, etc. Stations F173 and F208. Common.

E. VARIOLARIUS (P.deB.). A common species which occurs generally.

COENUS Dallas

C. DELIUS (Say). Bar Harbor (Parshley); Eden sweeping. Also found on mullein (*Verbascum*).

NEOTTIGLOSSA Kirby

N. UNDATA (Say). Hibernates as an adult and feeds on mullein (*Verbascum*). Common, July 17–Sept. 12.

COSMOPEPLA Stål

C. BIMACULATA (Thomas). Bar Harbor; S. W. Harbor; Eden, June 7–Aug. 1. Feeds on buttercup, etc.

ACROSTERNUM Fieber

A. HILARE (Say). Hatched from nymphs on blackberry, Oct. 1. Is found on underbrush in woods.

BANASA Stål

B. DIMIDIATA (Say). Bar Harbor; Seal Harbor; S. W. Harbor, June 7–Aug. 18. Found on pine, cedar, birch, mountain ash, also mullein.

B. CALVA (Say). Swamp on Norway Drive; Seal Cove Brook; Stations F220 and F238, Sept. 15–Oct. 1. Rare in New England. Frequents the borders of brooks.

MEADORUS Mulsant and Rey

M. LATERALIS (Say). Bar Harbor; N. E. Harbor; S. W. Harbor; Corfield; Section 15; Stations F128, F212 and F231, July 20–Oct. 8.

ELASMOSTETHUS Fieber

E. CRUCIATUS (Say). A northern form which frequents alder. Common, July 15–Sept. 27.

PERILLUS Stål

P. EXAPTUS (Say). S. W. Harbor, Aug. 24.

APATETICUS Dallas

A. CYNICUS (Say). Eden, July 25–Aug. 10.

A. BRACTEATUS (Fitch). Narrows, Aug. 13. Sweeping rank vegetation.

PODISUS Herrich-Schaeffer

P. FRETUS Olsen. Station F382. First record from Maine.

P. MACULIVENTRIS (Say). Station F216. Scarce.

P. MODESTUS (Dallas). Bar Harbor; S. W. Harbor; Eden; Seal Cove Brook, June 11–Oct. 1. Taken by sweeping. Variation in size.

P. PLACIDUS Uhler. Bar Harbor; Nurseries, June 10–July 19.

P. SERIEVENTRIS Uhler. Duck Brook, Oct. 10. Scarce. Beating tree foliage is the best way to take these.

CORIZIDAE

CORIZUS Fallén

C. CRASSICORNIS (Linn.). Common all season.

COREIDAE

Sweeping around squash, cucumber and other juicy vines is a good method for this genus.

MEROCORIS Perty

M. DISTINCTUS Dallis. Taken by sweeping weeds. Salisbury Cove, Aug. 7, 1926. Scarce.

PROTENOR Haglund

P. BELFRAGEI Haglund. Brook, Newport Meadow, Sept. 13; Eden, Aug. 7. Newport Meadow; Section 21; Stations F173, F286 and F288. Often found on knot-weed (*Polygonium*).

ALYDIDAE

ALYDUS Fabricius

- A. CONSPERSUS Mont. S. W. Harbor, June 21; Section 15 on wild cherry, Sept. 15.

ARIHYSSUS Stål

- A. BOHEMANNI (Sign.). Salisbury Cove, July (Olsen).

STICTOPLEURUS Stål

- S. PUNCTIVENTRIS (Dallas). S. W. Harbor; Section 16; Station F173; June 30-Sept. 23.

ARADIDAE. The Flat-bugs

Under bark particularly around the base of stumps is where these will be found.

ARADUS Fabricius

- A. ABBAS Bergroth. Salisbury Cove, July 14.
A. BASALIS Parsh. Mt. Desert, Sept. 30 (Br.).
A. NIGER Stål. S. W. Harbor under bark of dead pine, July 11; Boyd Road under spruce bark, Oct. 4.
A. QUADRILINEATUS Say. Bar Harbor, July 22-27. Under bark.
A. SIMILIS Say. Jordan Pond, June 9; The Beehive, Aug. 13 (Sanford).

NEUROCTENUS Fieber

- N. SIMPLEX (Uhler). Beating dead spruce branches Penikese, July 31.

ANEURUS Curtis

- A. INCONSTANS Uhler. Penikese, beating dead spruce, June 19.

NEIDIDAE

NEIDES Latreille

- N. MUTICUS (Say). Bar Harbor, Sept. 3 (Br.); Stations F130 and F239, Oct. 3-7. General sweeping for these.

LYGAEIDAE

LYGAEUS Fabricius

- L. KALMII Stål. Salisbury Cove, July 17 (Sanford); mating pair on *Solidago*. Station F150, Aug. 22. Not common.
- L. TRIPUNCTATUS Dall. Green Mt. Aug. 30–Sept. 2 (Br.). The smallest and probably the rarest member of the genus in the N. E. States.

ORTHOLOMUS Stål

- O. SCOLAPAX (Say) (*longiceps* Stål.). Tremont, Aug. 23. Not common.

NYSIUS Dallas

- N. THYMI (Wolff.) A more northern species and occurs with that above. Narrows, June 17–Aug. 13.
- N. ERICAE (Schilling). Frequent on garden and field crops. Hides under weeds in fall. Narrows, Tremont, Aug. 13–23.

ISCHNORHYNCHUS Fieber

- I. RESEDAE (Panz.). On catkins of poplar and of *Corylus* in Apr. (Br.). On various catkins along Middle Road, May 24, F308. Variable as to size.

CYMUS Hahn

- C. ANGUSTATUS Stål. Found on sedges and grasses around swampy areas. Narrows; Eden, June 9–July 15.
- C. DISCORS Horvath. Echo Lake; S. W. Harbor; Eden, July 12–15. Station F414.
- C. LURIDUS Stål. S. W. Harbor; Tremont, July 11–Aug. 30.

ISCHNODEMUS Fieber

- I. FALICUS (Say). Taken but once at Station F173, Aug. 2, '34.

BLISSUS Burmeister

- B. HIRTUS Mont. Chinch bug. Eden, July 13. It is about the Island in small numbers. Nymphs, probably of this species, were found at Station F181.

GEOCORIS Fallén

- G. BULLATUS (Say). Bar Harbor, July 6 (Sanford). Town Hill under cow dung, Aug. 30. Much color variation.
- G. ULIGINOSUS (Say). S. W. Harbor, Sept. 6.
- G. ULIGINOSUS LATERALIS (Fieb.). There have been but two species of this genus described from New England but each has several color varieties which have been named and described. Sunken Heath, which is a sphagnum bog, F345.

PHILEGYAS Stål

- P. ABBREVIATUS (Uhler). Eden; Station F208, July 13-23. Sifting at foot of Newport Mt. Aug.

CROPHIUS Stål

- C. DISCONOTUS Say. Beating *Polygonum sachaliense* Sept. 4.

SPHAEROBIUS Uhler

- S. INSIGNIS (Uhler). Tremont, Sept. 4. From the number of records extant this appears to be a scarce form.

LIGYROCORIS Stål

- L. DIFFUSUS (Uhler). To be looked for under boards, etc. Salisbury Cove; S. W. Harbor, July 13-Sept. 6.
- L. DEPICTUS Barber. Found on high ground and sea beach. Particularly on *Atripex patula*.
- L. SYLVESTRIS (Linn.) (*contractus* Say). S. W. Harbor; Paradise Hill; Stations F173 and F208, June 18-Sept. 6.

STIGNOCORIS Douglas and Scott

- S. PEDESTRIIS (Fall.). Bay Shore Drive; Station F182, Station F218. A new record for Maine.
- S. RUSTICUS (Fall.). Found near bogs and water, Sept. 30.

TRAPEZONOTUS Fieber

- T. ARENARIUS (Linn.). Sifting at Penikese, July 28.

DRYMUS Fieber

- D. UNUS (Say). Usually found under stones and boards. N. E. Harbor, Sept. 27; Station F38, Aug. 12.

EREMOCORIS Fieber

- E. FERUS (Say). S. W. Harbor, July 25. Sifting at foot of Newport Mt., Aug. 18.

XESTOCORIS Van Duzee

- X. NITENS Van D. Sifting at Penikese, July 28.

SCOLOPOSTHETUS Fieber

- S. THOMSONI Reut. Mt. Desert, Sept. (Br.). This species is found among dead leaves.
S. DIFFIDENS Horvath. Opposite Newport Mt. sifting, Aug. 1.

PAROMIUS Fieber

- P. LONGULUS (Dall). Salisbury Cove (Olsen) July 23.

PACHYBRACHIUS Hahn

- P. BASALIS (Dallas). Salisbury Cove (Olsen). This is a late form and is found under logs and stones in the autumn.
P. sp. Salisbury Cove (Olsen) in July.
P. sp. Salisbury Cove (Olsen). Different from the above two.

CARPILIS Stål

- C. FERRUGINEA Stål. Green Mt. (Br.) Sept. 9. I am told that this is the first record from Maine.

PLINTHISUS Fieber

- P. COMPACTUS (Uhler). Sifting leaves at Penikese, foot of Newport Mt. and Section 40, July 18-Aug. 1.

TINGITIDAE. The Lace-bugs

DICTYONOTA Curtis

- D. TRICORNIS (Schrank). var. AMERICANA Parsh. Mt. Desert, Aug. 29. There are many varieties of this species and as far as I can make out this form has been found in Maine only.

CORYTHUCHA Stål

- C. JUGLANDIS (Fitch). Common, June 7–Sept. 2.
C. MARMORATA (Uhler). Narrows; Sea Cove Brook, July 14–Sept. 8. Frequents *Solidago* and ragweed.
C. CONTRACTA Osborn & Drake. Seal Harbor (Br.), Aug. 28 on *Sorbus americana*. Said to feed also on *Amelanchier* in this State.
C. PALLIDA O. & D. Sal. Cove, July (Olsen). It is a common form farther west but scarce in New England. A uniform yellow-brown color.
C. HEIDEMANNI Drake. July–Aug. On alder which is its food plant.
C. MOLLICULA O. & D. Swept from willow, which is the food plant, in Sept. (Br.).

GALEATUS Curtis

- G. PECKHAMI Ashm. Salisbury Cove, July 15 (Olsen). This is the only species of this genus that is found in North America.

STEPHANITIS Stål

- S. RHODODENDRI Horvath. Rhododendron Lace-bug. Witch Hole Pond; Bar Harbor; S. W. Harbor, July 30–Sept. 3. Feeds on *Kalmia* and rhododendron as the name indicates.

LEPTOSTYLA Stål

- L. CLITORAE Heid. July–Aug. (Br.). On alder, which is its food plant.

PHYSATOCHAILA Fieber

- P. VARIEGATA Parsh. From Apr. 27 on catkins to Sept. 25 on Great Heath (Br.). This was formerly considered a variety of *plexa* but now has a species status.
- P. PLEXA (Say). Great Heath, Sept. 27 (Br.).

MELANORHOPALA Stål

- M. CLAVATA Stål. Bar Harbor; Beehive (Sanford); Eden, July 24–Aug. 15. Taken by general sweeping.

REDUVIIDAE

METAPTERUS Costa

- M. ANNULIPES (Stål). Mt. Desert, Aug. 29–Sept. 21 (Br.). Under stones in early spring. Sweeping edges of fields best place for them.
- M. sp. Mt. Desert, Sept. 17 (Br.).

REDUVIUS Fabricius

- R. PERSONATUS (Linn.). The Kissing Bug or Masked Bed-bug Hunter, which as a nymph covers itself with lint and dust in houses and thus disguised destroys its unsavory fellow. One specimen taken at Corfield, July 6, '31.

ZELUS Fabricius

- Z. EXANGUIS (Stål). A common species on hard woods. Lower Breakneck beating in June.
- Z. SOCIUS Uhler. N. E. Harbor, July 21 (Minot). Beating hardwood trees will get them if anywhere about.

SINEA Amyot and Serville

- S. DIADEMA (Fab.). Assassin Bug. All summer it is found from clover to *Solidago* where it goes to the flowers to catch insects.

MESOVELIIDAE

MESOVELIA Mulsant and Rey

M. MULSANTI White. "Mt. Desert," July 30 (McAtee).

NABIDAE

PAGASA Stål

P. FUSCA (Stein). Bar Harbor (Moore). Found under stones.

NABIS Latreille

N. FERUS (Linn.). Taken sweeping almost anywhere, common. S. W. Harbor, Sept. 6.

N. (DOLICHONABIS) LIMBATUS Dahl. Salisbury Cove, Aug. 7 (Sanford). This northern form is scarce.

N. (DOLICHONABIS) PROPINQUUS Reut. Inhabits very damp locations. Mouth of Northeast Creek, July 25.

N. (NABIS) ROSEIPENNIS Reut. Both the long and the short winged forms are commonly taken in sweeping.

N. (NABIS) RUFUSCULUS Reut. Echo Lake; S. W. Harbor, July 12-15. All short winged individuals.

N. (NABICULA) SUBCOLEOPTRATUS Kby. S. W. Harbor; Eden, July 15-Aug. 20. Sweeping general vegetation.

N. FLAVOMARGINATUS Scholtz. Penikese, sweeping meadow July 28.

CIMIDIDAE

CIMEX Linnaeus

C. LECTULARIUS Linn. The common bed-bug thrives here.

OECIACUS Stål

O. VICARIUS Horvath. Infests the chimney swift.

ANTHOCORIDAE. The Flower Bugs

ANTHOCORIS Fallén

A. BOREALIS Dallas. Bar Harbor; Eden; S. W. Harbor, June 11-Sept. 6.

- A. CONFUSUS Reut. One specimen taken May 5, '38. Only one species (*borealis*) is said to occur in New England. This specimen, which is in the U.S.N.M., was determined by H. G. Barber and confirmed by Dr. H. M. Harris.
- A. MUSCULUS (Say). Mt. Desert (Br.), May 10–Sept. 25. Known from New York but not reported from Maine heretofore. Beaten from poplar, Cleftstone Rd. Sept.

TETRAPHLEPS Provancher

- T. UNIFORMIS Parsh. Taken on larch (Br.), Aug. 31. A scarce form.

ORIUS Hahn

- O. INSIDIOSUS (Say). Section 15 sweeping low herbage, Sept. Truck farm Eden sweeping harvested land, Aug. 27. Swept from various plants where it feeds on thrips and aphids.

MIRIDAE. Leaf-bugs

Sweeping and beating is the method with all of this family. Pay particular attention to the food plant.

ORECTODERUS Uhler

- O. OBLIQUUS Uhler. S. W. Harbor; Salisbury Cove, June 16–July 13. Food plant is *Chenopodium album*.

DICYPHUS Uhler

- D. AGILIS (Uhler). Long Pond, July 16. On *Rubus* and the like is the proper place to look for these.
- D. FAMELICUS (Uhler). Mt. Desert (Br.), May 8. Food plant, *Rubus*.

MACROTYLUS Fieber

- M. SEXGUTTATUS Prov. Echo Lake, July 12. Frequents asters.
- M. AMOENUS Reuter. Near Icy Hill, Aug. 7. Lives on the various asters.

LOPUS Hahn

L. DECOLOR (Fall.). Breeds in sedges. Eden; Bar Harbor, July 15–Aug. 15.

PSALLUS Fieber

P. MORRISONI Knight. Sweeping *Solidago*, *Myrica*, etc.,
P. FUSCATUS Knight. Bar Harbor; S. W. Harbor, Eden, July 20–Aug. 10.

RHINOCAPSUS Uhler

R. VANDUZEEI (Uhler). Food plant wild red raspberry *Rubus idaeus* and they may be taken generally from July 20–Sept. 1.

PLAGIOGNATHUS Fieber

P. ALBONOTATUS var. COMPAR Kngt. Eden, Aug. 10.
P. ALBONOTATUS Kngt. Bar Harbor; Eden, July 13–19.
P. ANNULATUS NIGROFEMORATUS Kngt. Corfield, Aug. 12.
P. BREVIROSTIS Kngt. Penikese, Sept. 15.
P. CHRYSANTHEMI (Wolff). Bar Harbor; S. W. Harbor, July 8–14. Food plant is *Chrysanthemum leucanthemum*.
P. OBSCURUS Uhler. Bar Harbor, July 19–Aug. 10. On thistles Middle Road, July 27.
P. OBSCURUS FRATERNUS Uhler. Foot of Newport Mt. sifting, Aug. 15.
P. POLITUS var. PALLIDICORNIS Kngt. Bar Harbor, July 17–Aug. 10.
P. POLITUS (Uhler). Sweeping around Witch Hole F342. Food plants are various weeds including ragweed.

MACROLOPHUS Fieber

M. SEPARATUS (Uhler). Green Mt., July 25.

HYALIODES Reuter

H. VITRIPENNIS (Say). Feeds on plant lice.
H. HARTI Knight. Record of capture lost. In Knight coll.

MONALCORIS Dahlbom

M. FILICIS (Linn.). Bar Harbor, June 11–July 22. Found on ferns.

DERAEOCORIS Kirchbaum

D. APHIDIPHAGUS Knight. Bar Harbor, June 17. Not common.
D. FASCIOLUS Kngt. Record of capture lost.

STONGYLOCORIS Blanchard

S. STYGICUS (Say). Eden; Bar Harbor, July 15–17. Species of *Solidago* are the food plants.

S. sp. Mt. Desert, Aug.

S. BREVIATUS Knight. S. W. side of Island sweeping rank weeds, Aug. 12–24. One specimen autotype. Have been told that *Solidago* is the food plant.

PHYTOCORIS Fallén

P. MUNDUS Reut. Bar Harbor, Sept. 28 (Br.).

P. PALLIDICORNIS Reut. Bar Harbor, Sept. 19 (Br.).

PITHANUS Fieber

P. MAERKELII (H.-S.). Salisbury Cove in July (Olsen). Fre-
quents grasses.

LOPIDEA Uhler

L. MEDIA (Say). Eden F335, Sept. 19. Said to breed on *Solidago*.

MECOMMA Fieber

M. GILVIPES (Stål). Eden; Bar Harbor; S. W. Harbor, July 15–Sept. 13.

MELANOTRICHUS Reuter

O. CATULUS (Van D.). S. W. Harbor, July 13. Breeds on *Gnaphalium*.

O. FLAVOSPARSUS (Sahl.). S. W. Harbor, July 13. Food plant *Chenopodium album*.

CERATOCAPSUS Reuter

- C. PUMILUS (Uhler). S. W. Harbor, Sept. 3 (Alexander).
Found on grape vines.

PILOPHORUS Westwood

- P. STROBICOLA Knight. Record of capture lost.

ORTHOCEPHALUS Fieber

- O. MUTABILIS (Fall.). Bar Harbor; S. W. Harbor; Salisbury Cove, June 11–July 15. Food plant is *Chrysanthemum leucanthemum*.

ILNACORA Reuter

- I. MALINA (Uhler). Eden, July 13. Food plant *Solidago rugosa* growing in shaded damp places.

BOLTERIA Uhler

- B. LUTEIFRONS Knight. Beaten from *Juniperus* July 8 (Br.) near Bldg. of Arts. Described from one specimen from No. Carolina by Knight. One specimen in cabinets and two in U.S.N.M. Most closely allied to *Dichrooscytus*.

GERRIDAE. The Water-striders

GERRIS Fabricius

- G. ARGENTICOLLIS Parsh. "Mt. Desert," July 28 (McAtee).
G. BUENOI Kirk. Salisbury Cove; Bar Harbor, Aug. 10, 11.
G. DISSORTIS Drake & Harris. Bar Harbor; Salisbury Cove, June 14–July 18.
G. MARGINATUS Say. Ice pond, Manset; S. W. Harbor, June 18–July 13. Common.
G. REMIGIS Say. Duck Brook; Bar Harbor; Manset, June 11–Aug. 18. Common.
G. (LIMNOPORUS) RUFOSCUTELLATUS Latr. Bar Harbor; Salisbury Cove, June 14–July 18.

TREPOBATES Uhler

T. PICTUS (H.-Sch.). Ice pond, Manset, June 18. It is a pond dweller and is generally taken wingless.

MICROVELIA Westwood

M. near BOREALIS Bueno. One specimen of this small beautiful form was taken from under bark of spruce log near Long Heath, Aug. 13, '41.

VELIIDAE

RHAGOVELIA Mayr

R. OBESA Uhler. Duck Brook; Outlet of Ripple Pond, Aug. 18. Lives on the swift water of brooks.

SALDIDAE. The Shore-bugs

SALDA Fabricius

S. CORIACEA Uhler. S. W. Harbor; Narrows, June 18-July 17. In bogs around roots of plants.

SALDULA Van Duzee

S. INTERSTITIALIS (Say). Narrows, Aug. 13. Around sedges in swamps.

S. MAJOR (Prov.). Bar Harbor; S. W. Harbor, June 11-July 15. Same habitat as above.

S. n.sp. near ORBICULATA (Uhler). Two individuals were taken in Sea Wall Bog, July 9, '38. One in U.S.N.M. and one in cabinets.

LAMPRACANTHIA Reuter

L. CORIACEA (Uhler). S. W. Harbor; Narrows, June 18-July 17. In bogs around roots of plants.

NOTONECTIDAE. The Back-swimmers

NOTONECTA Linnaeus

- N. UNDULATA Say. A common and widespread species of various shades. Station F137 was very productive.
- N. IRRORATA Uhler. Penikese; Station F212, July 25-31. Scarce.

NEPIDAE. The Water Scorpions

RANATRA Fabricius

- R. FUSCA Pal.-Beauv. (*americana* Mont.). In various small ponds where there is plenty of vegetation. Pond near Town Hill; Stations F168 and F212.

BELOSTOMATIDAE. The Giant Water-bugs

LETHOCERUS Mayr

- L. AMERICANUS (Leidy). This species is in all of the swampy ponds on the Island to a limited extent. They may be taken in a minnow trap. Nymphs and adults appear at the same times.

BELOSTOMA Latreille

- B. FLUMINEUM Say. But one specimen of this species has been taken and that a nymph at Station F386.

CORIXIDAE. The Water-boatman

ARCTOCORIXA Wallengren

- A. DECOROTELLA Hungf. S. W. Harbor, July 14-18.
- A. CONOCEPHALA Hungf. S. W. Harbor, July 15.
- A. VULGARIS Hungf. Salisbury Cove, Aug. 10.
- A. SERIATA Abbott. Salisbury Cove, Aug. 11.
- A. NITIDA var. MINOR Abbott. Salisbury Cove, July 18-Aug. 10.
- A. MACROPALA Hungf. S. W. Harbor, June 18.
- A. INTERRUPTA (Say). Bar Harbor; Salisbury Cove; Stations F129 and F137, June 14-Aug. 10.

- A. ORNATA Abbott. Taken in but one place. Station F396 in the estuary of Gt. Heath where the first signs of fresh water appear. Sept. 1, '42.
- A. KENNECOTTH (Uhler). Taken only in the same place and with the above.

TRICHOCORIXA Kirkaldy

- T. VERTICALIS Fieber. Large numbers of them were in the brackish pools at the Narrows, Aug. 1934. For the following 5 years I saw none and now they are again plentiful.

Sub Order HOMOPTERA

CICADIDAE. Misnamed the Locust

TIBICEN Latreille

- T. CANICULARIS (Harris). Found during August but not common.

OKANAGANA Distant

- O. RIMOSA (Say). Indian Point, Aug. 8, '35. Rare.

CERCOPIDAE. The Spittle Bugs

The frothy masses will disclose the place of the nymphs.

APHROPHORA Germar

- A. PARALLELA (Say). Mt. Desert, July 27. The Pine Spittle Bug which frequents many conifers.
- A. sp. near PERMUTATA. Record of capture lost.
- A. QUADRINOTATA Say. S. W. Harbor, Sept. 6.
- A. near IRRORATA Ball. Station F104, Sept. 10.
- A. SARATOGENSIS (Fitch). Mt. Desert, Sept. 9. Frequents pine.
- A. SIGNORETI Fitch. Bar Harbor; Salisbury Cove; N. E. Harbor, July 11-Aug. 24.

LEPYRONIA Amyot and Serville

- L. QUADRANGULARIS (Say). Sec. 31; Sec. 16; Gt. Heath; Paradise Hill, Aug. 2-Oct. 7.

PHILAENUS Stål

- P. BILINEATA (Linn.). Record of capture lost.
 P. LEUCOPHTHALMUS var. SPUMARIUS Fallen. A common form showing many variations. Some are —
 var. FABRICI Van D. S. W. Harbor; Long Pond; Narrows, July 15-27.
 var. PALLIDUS Zett. S. W. Harbor; Salisbury Cove, July 13.
 P. LINEATUS Linn. S. W. Harbor; Salisbury Cove, July 15.

PHILARONIA Ball

- P. BILINEATA Say. The grass spittle bug. Narrows, July 27-Aug. 13.
 P. BILINEATA var. ORBICULARIS Ball. Narrows, July 19-Sept. 12.

CLASTOPTERA Germar

- C. OBTUSA (Say). The alder spittle bug. Witches' Hole Pond; Long Pond, July 30-Aug. 21.
 C. PROTEUS Fitch. Bar Harbor; S. W. Harbor, July 30-Aug. 21.
 var. VITTATA Ball. Bar Harbor, Aug. 18.
 C. SAINTCYRI Prov. Widespread in August.
 C. SAINTCYRI var. ANCEPS McAtee. Tremont; S. W. Harbor, in late August.
 var. TESTACEA Fitch. Bar Harbor; Tremont; S. W. Harbor, July 30-Sept. 6.

MEMBRACIDAE. The Tree-hoppers

Look for these on the branches of trees and shrubs along the borders of open places, edges of woods, and the like on sunny days. Beating is the method.

CERESA Amyot and Serville

- C. BASALIS Walker. S. W. Harbor, Aug. 26–Sept. 6. S. W. Harbor; Somesville; Indian Pt., Sept. 8; Sec. 28, Aug. 20; common from Aug. 20 to frost.
C. DICEROS (Say). Golf course on *Cornus*, Aug. 26.

CARYNOTA Fitch

- C. MARMORATA (Say). Corfield, July 15. Scarce.
C. STUPIDA (Walk.). Salisbury Cove, July 15, on birch (Olsen).
C. PORPHYREA Fairm. Corfield, July.

TELEMONA Fitch

- T. AMPELOPSIDIS (Harris). Corfield, Aug. 8.
S. sp. Corfield, Aug. 19.

CYRTOLOBUS Goding

- C. INTERMEDIUS (Emmons). Bar Harbor, June 21.
C. sp. Corfield on spruce, June 28.

OPHIDERMA Fairmaire

- O. FLAVA Goding. Bar Harbor, June 21.

PUBLILIA Stål

- P. CONCAVA (Say). Sec. 26; Sec. 11; Indian Pt., Somesville, Aug. 7–Sept. 8. Common.

CAMPYLENCHIA Stål

- C. LATIPES (Say). Bar Harbor; S. W. Harbor, July 24–Aug. 21.

ENCHENOFA Amyot and Serville

- E. BINOTATA (Say). Robinson Mt., Aug. 24. Scarce.

PALONICA Ball

- P. TREMULATA Ball. One specimen taken on Center Trail Western Mt., Sept. 30, '32. Rare.

CICADELLIDAE. The Leaf-hoppers

AGALLIA Curtis

- A. QUADRIPUNCTATA (Prov.). Lake Wood, June 10; Bar Harbor, June 11. Look for this genus on grasses and clover.

ACERATAGALLIA Kirkaldy

- A. SANGUINOLENTA (Prov.). Clover leaf-hopper, Bar Harbor, Aug. 18.

IDIOCERUS Lewis

- I. FITCHI Van D. Eden, July 15. The whole genus is a tree and shrub feeder.
I. PROVANCHERI Van D. Green Mt., July 25.
I. ALTERNATUS Fitch. A common general feeder. Hibernates as an adult and starting off with the catkins in April it goes on.
I. PALLIDUS Fitch. Taken on willow in August. Common.
I. sp. Great Heath, Aug. 28.

AGALLIOPSIS Kirkaldy

- A. NOVELLA Say. Salisbury Cove, July (Olsen). Found in open fields where they feed upon grasses.

MACROPSIS Lewis

- M. SORDIDA (Van D.). S. W. Harbor, July 24. A northern form. Willow is one of the foods.
M. TRIMACULATA (Fitch). Salisbury Cove, July (Olsen). Has been reported from wild plum.
M. VIRIDIS (Fitch). Taken as the above. The food plant is willow on this Island.

ONCOPSIS Burmeister

- O. SOBRIUS (Walk.). N. E. Harbor; S. W. Harbor, July 13–Aug. 10. Birch is a food tree.
- O. PRUNI (Prov.). Common, July 12–Sept. 3. On birch and wild plum.
- O. NIGRINASI (Fitch). Bar Harbor; Eden; S. W. Harbor, July 13–Aug. 30. Hazel and *Viburnum*.
- O. MINOR Fitch. Mt. Desert, July (Br.). It favors birch.
- O. VARIABILIS (Fitch). Mt. Desert, June 6 (Br.). Also favors birch.
- O. sp. Corfield, June 8.
- O. sp. Mt. Desert, Aug. 10, beaten from spruce.
- O. sp. Mt. Desert (Br.), June 30.
- Each of the three above differ.

NEOKOLLA Melichar

- N. GOTHICA (Signoret). Echo Lake; Eden; S. W. Harbor, July 15–Sept. 6. Section 26, Stations F35 and F187, July 15–Sept. 6.

HELOCHARA Fitch

- H. COMMUNIS Fitch. Feeds on grasses and the like along streams and wet places. Bar Harbor; Narrows; Seal Cove Brook, July 19–27.

GRAPHOCEPHALA Van Duzee

- G. COCCINEA (Förster). Paradise Hill, Oct. 6.
- G. COCCINEA var. TELIFORMIS (Walk.). Bar Harbor; S. W. Harbor; Station F68, July 24–Sept. 6.

CUENA Melichar

- C. LATERALIS (Fab.) Long Pond; Sec. 31; Somes Sound Inlet; F31, Aug. 2–Sept. 16. Low pastures on grasses, etc.

DRAECULACEPHALA Ball

- D. MOLLIPES (Say). Echo Lake, July 12-25. General but not common and found on grasses and sedges in both dry and wet localities.
- D. ANGULIFERA (Walk.). Witches' Hole, Aug. 28-Sept. 2 (Br.). The members of this species are found in low land where they live on rank vegetation.
- D. PRASINA (Walk.). Witches' Hole, Sept. 12. Gt. Heath, Oct. 2 (Br.); Tremont; S. W. Harbor, Eden; Station F130, July 23-Sept. 10.

EVACANTHUS LePeletier and Serville

- E. ACUMINATUS (Fab.). A woodland species to be looked for on low plants. Bar Harbor, July 10. Scarce.

PENTHIMIA Germar

- P. AMERICANA Fitch. The only species found in the U. S. and is found on oak and other shrubs here.

GYPONANA Ball

- G. OCTOLINEATA (Say). "Mt. Desert," July 30 (McAtee). Sweep mixed grasses and shrubs for these.
- G. STRIATA Burm. Bar Harbor; Duck Brook, Stations F35 and F48; Eden, July 24-Sept.

APHRODES Curtis

- A. BICINCTUS (Schr.). Bar Harbor, Aug. 10.
- A. ALBIFRONS (Linn.). S. W. Harbor, Aug. 26-Sept. 3 (Alexander).

HECALUS Stål

- H. LINEATUS (Uhler). Mouth of Northeast Creek; Narrows, July 18-Aug. 13. Around the edges of swamps and heaths is its home. Scarce.

MESAMIA Ball

M. VITELLINA (Fitch). S. W. Harbor, Aug. 23; Bar Harbor, Sept. 13. Look for it in wooded places and on the wild rose.

SCAPHOIDEUS Uhler

S. CARINATUS Osb. Bar Harbor, July 24. In open woodland.

S. IMMISTUS (Say). Bar Harbor; S. W. Harbor, July 20–Sept. 6. A very mixed feeder.

S. PRODUCTUS Osb. In August this common woodland species is found in moist places.

CLOANTHANUS Ball

C. ACUTUS (Say). Common all summer in the fields and also on blueberry.

LAEVICEPHALUS DeLong

L. ACUS S. & D. Mt. Desert, October. Another common species found in rank grass in damp places.

L. DEBILIS (Uhl.). "Mt. Desert" (McAtee) July 30. Found in moist woods.

D. SYLVESTRIS Osb. & Ball. Look for this in sheltered areas and on grass on "cutover" land. 'Mt. Desert,' July 30 (McAtee); S. W. Harbor, Aug. 30.

D. ABDOMINALIS (Fab.). Penikese, July 15. Low and wet grassy areas are its home.

D. STRIATUS (Linn.) (*D. affinis* G & B). Bar Harbor, Aug. 10. One of the common widespread forms.

D. FLAVO-VIRENS G. & B. Penikese, July 15.

APLICEPHALUS DeLong

A. SIMPLEX (Van D.). Sec. 28; Narrows late July. Lives around edges of swamps. Feeds upon *Spartina patens*.

EUSCELIS Brullé

E. EXTRUSUS (Van D.). Bar Harbor, July 30. Another low-land species.

PRESCOTTIA Ball

P. LOBATA (Van D.). Station Sec. 11, Brook S. of road; S. W. Harbor; Long Pond, Sept. 3-7.

SCAPHYTOPIUS Ball

S. sp. probably CINEROSUS (Osb.). Station F375.

S. MAGDALENSIS (Prov.). Tremont Aug. 23. A late summer form on blueberry.

NESOSTELES Kirkaldy

N. sp. Mt. Desert (Br.), Oct. 2.

ATHYSANUS Burmeister

A. ARGENTATUS (Fab.). Great Heath, Aug. 8.

OSBORNELLUS Ball

O. SCALARIS Van D. S. W. Harbor, Sept. 6, in meadow.

O. AURONITEUS Prov. S. W. Harbor, Sept. 6. A common form on *Solidago* in woodland areas.

LATALUS DeLong and Sleesman

L. CONFIGURATUS (Uhl.). Sec. 28, July 18. Common.

L. SAYI (Fitch). A hardy species that prefers grain and tall grass, but can persist under various conditions. July and August.

POLYAMIA DeLong

P. INIMICUS (Say). Feeds on almost every plant and can become a pest. Common and widespread in July.

LIMOTETTIX Sahlberg

L. CUNEATUS (Sand. & DeL.). Tremont, Aug. 23. It is found around the edges of swamps.

L. STRIOLUS (Fall.). Tremont; S. W. Harbor, last of August. Same habitat as above.

IDIODONUS Ball

- I. KENNICOTTI (Uhl.). S. W. Harbor, Sept. 3 (Alexander). Found on shrubs and trees, particularly oaks.
- I. SUBCUPRAEUS (Prov.). Tremont; Echo Lake, Aug. 23–Sept. 7.
- I. MORSEI (Osb.). Mt. Desert, Sept. 2 (Br.). Feeds on willow. August best month.

OPHIOLA Edwards

- O. ANGUSTATA (Osb.). A common form on bracken in our cut-over land in August.
- O. ANTHRACINA (Ball). S. W. Harbor; Sec. 28, June 27–July 15. This is a high and dry form. On upland pastures.
- O. ARCTOSTAPHYLI (Ball). Tremont, late August. Bearberry is its food plant.
- O. HUMIDA (Osb.). Station F375.
- O. STRIATULA (Fall.). On blueberry in wet places late summer. Sometimes abundant.
- O. VACCINII (Van D.). Station F375.
- O. sp. Mt. Desert, Aug. 20 (Br.).

BANDARA Ball

- B. JOHNSONI Van D. S. W. Harbor, Aug. 26 (Alexander). On undergrowth in open woods.
- B. BELLI (Uhl.). Eagle Lake, July 18. A shrub feeding northern form.

PHLEPSIUS Fieber

- P. FUSCIPENNIS Van D. Tremont, S. W. Harbor, Aug. 23. Common in all kinds of places.
- P. IRRORATUS (Say). S. W. Harbor, Sept. 6. Meadows are the best place to find these.
- P. FULVIDORSUM (Fitch). Echo Lake; Dry Mt., Aug. 29–31 (Osborn). Bar Harbor, Sept. 2–13. Dry and shaded spots are the best places for these.

- P. SOLIDAGINIS (Walk.). Bar Harbor, July 23. On *Solidago*. Goldenrod is its favorite plant but it will feed on anything.
P. sp. An herbaceous feeder, Penikese, August.

THAMNOTETIX Zetterstedt

- T. SIMPLEX H.-S. Long Pond; Eagle Lake; Bar Harbor, July 16-27. Large shrubs like young birch and hazel are good places to beat.
T. sp. Mt. Desert, Sept. 12 (Br.).

COLLADONUS Ball

- C. CLITELLARIUS (Say). Saddle-backed leaf-hopper. Bar Harbor, July 20. Common.
C. EBURATUS (Van D.). Bar Harbor; S. W. Harbor, Aug. 10-Sept. 3. Cutover land on mixed growth is the place for these.
C. WALDANUS (Ball). Bar Harbor, July 24.

CICADULA Zetterstedt

- C. SMITHI (Van D.). Sec. 28, July 15. Found in open fields where there is moisture.
C. DECIPIENS (Prov.). S. W. Harbor. Another lowland form.
C. MELANOGASTER (Prov.). S. W. Harbor; Echo Lake, Aug. 26-29 (Alexander). A common grass feeder.
C. sp. Mt. Desert, Aug. 30 (Br.).

ELMANA DeLong

- E. INORNATA (Van D.). A common species.

MACROSTELIS Fieber

- M. SLOSSONI (Van D.). S. W. Harbor, July 13-Aug. 20. In wet pastures on *Juncus*.
M. DIVISUS (Uhl.). S. W. Harbor, July 13-Oct. 5. A general feeder.

CHLOROTETTIX Van Duzee

- C. UNICOLOR (Fitch). Bar Harbor; Station F130, July 24–Oct. 7. Pastures and meadows are its home.

BALCLUTHA Kirkaldy

- B. PUNCTATA (Thumb.). Bar Harbor; Echo Lake; S. W. Harbor, July 12–Sept. 6.

DIKRANEURA Hardy

- D. MALI Prov. A common pasture and grain pest throughout spring and summer. On willow catkins May 11 (Br.).
D. sp. Mt. Desert, Sept. 12 (Br.).
D. sp. Mt. Desert, Sept. 25 (Br.).

EMPOASCA Walsh

- E. OBTUSA (Walsh). "Mt. Desert," July 30 (McAtee). Feeds on the willow.
E. UNICA (Prov.). S. W. Harbor, Sept. 6. Alder is the food plant.
E. ATROLABES (Gillette). Eden, July 15. Alder is a food plant.
E. QUERCI var. GILLETTEI Van D. (*Typhlocyba bifasciata* G. & B.). Bar Harbor; S. W. Harbor, July 24–Sept. 5. Look on oak trees.
E. sp. From areas where pine grows.

TYPHLOCYBA Germar

- T. COMMISSURALIS Stål. Bar Harbor, August.
T. FLAVOSCUTA (Gillette). Bar Harbor; Echo Lake; S. W. Harbor, July 12–Sept. 5. Another fern feeder.
T. GILLETTEI (Van D.). Bar Harbor; S. W. Harbor, July 24–Sept. 25. Look on oak trees.
T. NIGRA (Osb.). Bar Harbor, July 10–Aug. 31. Ferns in cool moist woods.
T. VANDUZEEI (Gillette). Bar Harbor, Aug. 10. Found on ferns.

ERYTHRONEURA Fitch

- E. OBLIQUA (Say). Long Pond, Sept. 7, 1922. Sweeping grape vines is productive.
E. ZICZAC Walsh. S. W. Harbor, July 13. On woodbine (*Ampelopsis*).
E. ELEGANS McA. Corfield on woodbine (*Ampelopsis*), Sept. 8.
E. VULNERATA Fitch. Corfield on woodbine (*Ampelopsis*), Sept. 8.
E. sp. Corfield on woodbine (*Ampelopsis*), Sept. 8.
E. sp. Corfield on woodbine (*Ampelopsis*), Sept. 8.
E. sp. MACULATA GROUP. On *Quercus borealis*, Sept. 5 (Br.).
E. VITIFEX Fitch. Record of capture lost.

FULGORIDAE

EPIPTERA Metcalf

- E. VARIEGATA (Van D.). Sea Wall Bog, Aug. 22, F375. Found throughout New England.
E. sp. Western Mt. summit under spruce bark, Sept. 30.
E. sp. On spruce, Aug. 9.

CATONIA Uhler

- C. DIMIDIATA Van D. Bar Harbor (Br.), Aug. 30.

CIXIUS Latreille

- C. COLOEPIUM Fitch. Bar Harbor, Aug. 10–Sept. 3.
C. MISELLUS Van D. Bar Harbor; Echo Lake (Alexander), Aug. 8–Sept. 9.
C. BASALIS Van D. Bar Harbor; Station F128, July 24–Sept. 27. A common and widely distributed form.
C. PINI Fitch. Bar Harbor; Salisbury Cove, S. W. Harbor, July 15–Aug. 26. Lives on huckleberry.

BRUCHOMORPHA Newman

- B. OCULATA NEWH. Long Pond, Aug. 21.

CEDUSA Fowler

- C. HEDUSA McA. Mt. Desert (Br.), Aug. 30.
C. VULGARIS (Fitch). Witch Hole; Bar Harbor; Green Mt.,
July 11–Aug. 17. Common on oak.
C. sp. Robinson Mt., beating, Aug. 24.

PETARA Westwood

- P. VANDUZEI Ball. Section 11 brook S. of Road; F375.

APACHE Kirkaldy

- A. DEGEERI Kby. Mt. Desert (Br.), Aug. 27. Found in all
New England and Canada.

STENOCRANUS Fieber

- S. DORSALIS (Fitch). A midsummer form in meadows where
it thrives on various *Carices*.
S. sp. Mt. Desert (Br.), June 26.
S. sp. Mt. Desert (Br.), June 12.

KELISIA Fieber

- K. AXIALIS Van D. Tremont, Aug. 23.
K. sp. Southwest Harbor, Sept. 4.

LAMENIA Stål

- L. VULGARIS (Fitch). Witch Hole Pond; Bar Harbor; Green
Mt., July 11–Aug. 17. Common on oak.
L. sp. Robinson Mt., July 24.

MEGAMELANUS Ball

- M. SPARTINI Osb. Salisbury Cove, July 25. Bar Harbor,
June 11.

PHYLLODINUS Van Duzee

- P. NERVATUS Van D. Bar Harbor; Salisbury Cove, Echo
Lake, July 15–24.

LACCOCERA Van Duzee

- L. VITTIPENNIS Van D.? S. W. Harbor, Aug. 20. Robinson Mt. beating, Aug. 24. All females. Males needed for specific determination.

STOBAERA Stål

- S. TRICARINATA (Say). Salisbury Cove, July 25.

LIBURNIELLA Crawford

- L. ORNATA (Stål). Eden, July 15. Widely distributed.

DELPHACODES Fieber

- D. PELLUCIDA (Fab.). Station F395.
D. PUELLA (Van D.). Salisbury Cove, July 25.
D. CAMPESTRIS (Van D.). Bar Harbor, May 20.
D. sp. Great Heath, Oct. 5 (Br.).

PSYLLIDAE

Occur on the stems of plants and may be usually found by the noticeable flocculent wax secretion or by examining deformed parts and galls.

LIVIA Latreille

- L. VERNALIS Fitch. Seal Cove, Sept. 8.
L. MACULIPENNIS (Fitch). S. W. Harbor, Aug. 20. The nymphs develop in a gall formed on rush (*Juncus*).

APHALARA Förster

- A. VEAZIEI Patch. "Mt. Desert," July 30 (McAtee).

TRIOZA Förster

- T. TRIPUNCTATA (Fitch). Common at the foot of Western Mt., July to Sept. The nymphs are gregarious on the under side of the terminal leaves of the blackberry, causing them to curl and form rosette-like bunches.
T. OBTUSA Patch. Mt. Desert (Br.), June 12.

PSYLLA Geoffroy

- P. ANNULATA Fitch. "Mt. Desert," July 30 (McAtee). The nymphs live on maple.
- P. FLOCCOSA Patch. "Mt. Desert," July 30 (McAtee). The nymphs live on the growing twigs of alder.
- P. CARPINICOLA Crawl. Salisbury Cove; S. W. Harbor, July 15-Aug. 30.
- P. TRIMACULATA Crawl. Salisbury Cove; S. W. Harbor, July 15-Aug. 30.
- P. GALEAFORMIS Patch. The nymphal stages are passed on alder (*Alnus*). Section 26; Station F179, Aug. 7-24.
- P. QUADRILINEATA Fitch. Station F241, April 21.
- P. STRIATA Patch. Station F179, Aug. 24.

APHIDIDAE

Listed according to Dr. E. M. Patch in Hemiptera of Conn. Part IV Bulletin 34 of Conn. Geo. & Natl. Hist. Survey which contains life histories and other valuable references.

CINARA Curtis

- C. sp. Probably new according to P. W. Mason Station F247. In U.S.N.M.

EUCERAPHIS Walker

- E. BETULAE Koch. Swarming on white birch (*Betula alba*). Corfield, Sept. 21.

MYZOCALLIS Passerini

- M. sp. On young oak leaves. Corfield, June 1.
- M. sp. Corfield; flying Oct. 22 in large numbers at dusk.

PERIPHYLLUS Vander Hoven

- P. POPULICOLA Thomas. They live on the foliage of trees. On young poplar shoots, Corfield, Aug. 8.

APHIS Linnaeus

- A. CERASIFOLIAE Fitch. This black chokecherry form was taken June 17 on crumpled leaves at Penikese.
- A. MAIDIS Fitch. The corn leaf from. Smoky black. Bar Harbor, Aug. 1.
- A. RUMICIS Linn. Feeds on a great variety of vegetation. Taken on poplar tip, July 2. Corfield.
- A. sp. Pretty Marsh massed on fire weed (*Epilobrium*), Aug. 25.

MYZUS Passerini

- M. PERSICAE Sulzer. A general feeder. Sal. Cove on hollyhock.

CAPITOPHORUS Vander Goot

- C. RIBIS Linn. On leaves of currant. Sec. 40. June 19.

PHORDON Passerini

- P. HUMULI Schrank. The Hop Aphid. Hop vines, Penikese, Aug. 20.

MACROSIPHUM Passerini

- M. ALBIFRONS Essig. Massed on lupin Eagle Lake, July 2.
- M. EUPHORBIAE Thomas. On aster and *Rosa rugosa* Duck Br. June 21 and Town Hill on *Spiraea tomentosa* Aug. 5. Known as Potato Ahpid.
- M. PISI Kalt. Eagle Lake massed on stem of lupin July 13 and Barn Eyrie on aster Aug. 1. This species is sometimes confused with the one above.
- M. RUDBECKIAE Fitch. Center of yellow daisy *Rudbeckia hirta* Aug. 5. Foot Newport Mt. on Aster and *Solidago*, Sept. 18.

ERIOSOMA Leach

- E. AMERICANUM Riley. Causes leaf roll on American elm and then migrates to *Amelanchier* the roots of which harbor the summer generations. From elms, July 1-10.

E. LANIGERUM Hausmann. Has the elm for the over wintering host and then migrates to *Pyrus* and *Crataegus* returning to the elm in autumn.

PROCIPHILUS Koch

P. CORRUGANS Sirrine. Sal. Cove Emery Dist. Fuzzy and yellow on *Amelanchier*. July 21.

P. IMBRICATOR Fitch. Woolly patches on beach. Long Pond, July.

P. TESSELLATA Fitch. Migrates between maple and alder where it forms woolly patches on stem. Common.

MELAPHUS Walsh

M. RHOIS Fitch. Pear shaped or round reddish galls are formed on sumac (*Rhus*) in September. On Sept. 24, '37 at the foot of Newport Mt. I found the larva of a Syrphid fly in many of these galls which when reared proved to be *Pipiza* sp.

PEMPHIGUS Hartig

P. POPULI - CAULIS Fitch. Forms galls at the base of poplar leaves. Bar Harbor, Sal. Cove in Aug.

P. POPULI - TRANSVERSUS Riley. Forms galls on the stems of poplar. Corfield, July 10.

HORMAPHIS Osten Sacken

H. HAMAMELIDIS Fitch. Forms conical galls on the leaves of witch hazel (*Hamamelis virginica*) and migrates to birch. Common.

CHERMES Linnaeus

C. ABIETIS Linn. Spruce gall aphid which forms the conical galls on spruce. Common in Aug.

C. FLOCCUS Patch. Occurs generally on white pine.

C. PINICORTICIS Fitch. Pine bark aphid which occurs on the trunk of white pine in flocculent masses.

- C. PINIFOLIAE Fitch. Forms galls on red spruce, June 10.
C. SIMILIS Gillette. From red spruce, July 7 (Br.).
C. STROBILOBIVS Kalt. Woolly larch aphid. Sal. Cove, July-Aug.

ALEYRODIDAE

TRIALEURODES Cockerell

- T. VAPORARIORUM Westw. Greenhouse white fly. A general pest in greenhouses.

COCCIDAE. Scale Insects

XYLOCOCCLUS Morrison

- X. BETULAE (Perg.). Found on birch all the year.

CRYPTOCOCCLUS Douglas

- C. FAGI (Baer). Found on beech all the year.

LECANIUM Burmeister

- L. QUERCIFEX Fitch. Oak scale. Various parts of the Island on red oak.

PHYSOKERMES Targione-Tozzetti

- P. PICEAE Schr. Spruce Bud-scale. Common on spruce.

AULACAPSIS Cockerell

- A. ROSAE Bouché. Rose scale. Bar Harbor on roses.

HEMICHIONASPIS Cockerell

- H. ASPIDISTRAE Sign. Fern scale. Common on ferns under cultivation.

LEPIDOSAPHES Shimer

- L. ULMI (Linn.). Oyster-shell bark scale. Common on ash, mountain ash and willow.

Order COLEOPTERA. Beetles

CICINDELIDAE. The Tiger Beetles

These predaceous and handsome individuals occur in sandy places, such as sand pits, carriage roads, and the bare places left after removing the top soil.

CICINDELA Linnaeus

- C. PURPUREA Oliv. (42). Taken on bare patches in a field Sec. 28, May 26. One taken Aug. 28. Scarce.
- C. PURPUREA var. LIMBALIS Lec. (42c). Sec. 24, June 12–July 2; sandpit near Sea Wall, Aug. 24. Scarce.
- C. LIMBALIS var. SPRETA Lec. (45b). Bar Harbor, May 18 (Br.).
- C. DUODECIMGUTTATA Dej. (49). Frequents the borders of moist places. Newport Cove; Bubble Brook; Eagle Lake, June 15–Sept. 13. Not common.
- C. REPANDA Dej. (50). Mt. Desert, Aug. 1900 (Harris).
- C. TRANQUEBARICA Hbst. (*C. vulgaris* Say) (53). Abundant in the large sandpit near Sargent Drive, July 2–Sept. 5. Many in sandpit near golf links, June 1.
- C. TANQUEBARICA var. HORICONENSIS Leng (53c). One cotype labeled Mt. Desert, Aug. in collection of Amer. Mus. Natl. Hist. Trans Amer. Ent. Sety. 28:145.
- C. LONGILABRIS Say (59). Taken around patches near north end of Eagle Lake, Sec. 16, June 13–Aug. 16.
- C. SEXGUTTATA Fab. (69). Frequents roads in woods and shows great variety in marking but not much in color. Taken May 26–July 30, Breakneck Rd., Half Moon Pond, Bubble Brook, Chasm Brook. Our most common form. Large numbers in 1937 and 1938.

CARABIDAE. The Ground Beetles

They are to be looked for on the ground where they hide under stones and other cover. Some prefer the edges of ponds; others, dry places, while still others are found in

sphagnum moss or wet moss in deep woods. Some of our species fly freely on warm spring mornings, particularly near wet places. The way to take the bog species is to stamp around on the surface of the bog and drown them out. I have found by working potato patches and turning over the stones, a week or two after the crop has been harvested, a most fruitful field. When clover hay is cut and left in wind rows over night many beetles will be found underneath in the morning, where they have gone to search for other insects. Cheese is a good trap bait.

SCAPHINOTUS Dejean

S. VIDUUS (Dej.). (128). On August 24, '32, quite a number of these beetles appeared in the garden of Mrs. E. C. Bodman at Seal Harbor. Their food is land snails.

NOMARETUS Leconte

N. BILOBUS (Say) (134). This species was taken but once on the Island, probably because of the scarcity of its natural food, the land snails. It is found on Long Poreupine Island where there are snails, around the first of July, in decaying white birch logs. McFarland Hill, Aug. 7.

SPHAERODERUS Dejean

- S. CANADENSIS Chd. (160). Seal Harbor, Aug. 25 (Nicolay).
S. LECONTEI Dej. (162). A mating pair taken at Hunters Brook, June 10 (Br.). Found on the Poreupines but scarce anywhere.
S. LECONTEI Dej. var. DIFFRACTUS Csy. (162b). Seal Harbor, Aug. 24 (Nicolay).

CARABUS Linnaeus

C. MAEANDER Fisch. (166). Two specimens taken at fish bait Aug. 6, '23 at Morrell Park. (Miss E. L. Sawyer.) A rare form.

- C. CHAMISSONIS* var. *GROENLANDICUS* Dej. (168a). "Mt. Desert" (Austin). The occurrence of this beetle on the Island seems very doubtful.
- C. SERRATUS* Say (171). Scarce. Corfield, Aug. 30; Echo Lake, July 12 (J. H. Emerton). Habitat is under logs in damp localities.
- C. LIMBATUS* Say (172). Otter Cliffs Radio Station.
- C. NEMORALIS* Müll. (175). Found travelling and when gardens are dug over in the autumn. Not taken before 1931 and is on the increase. Larvae feed on cutworms. In the vicinity of Bar Harbor, June 14–Oct. 13.

CALOSOMA Webb

- C. SYCOPHANTA* Linn. (182). Introduced from Europe to destroy the gypsy moth. A single specimen was found dead on the beach of Ironbound Island by Mr. Dwight Blaney.
- C. FRIGIDUM* Kirby (183). Corfield, June 4 — Morrell Park, Aug. 3. Larva feeds on cutworms.
- C. CALIDUM* Fab. (204). Ironbound Isl. (Blaney).

LORICERA Latreille

- L. CAERULESCENS* (Linn.). (241). Ice Pond, S. W. Harbor, Sept. 8.

NOTIOPHILUS Duméril

- N. AENEUS* Hbst. (246). They are said to be found under leaves around the margins of fields and woods. Bee Hive Mt., Aug. 23 (Sanford).
- N. BOREALIS* Harr. (249). Along the margins of woods under leaves and in early spring on tree trunks. S. de Monts Spring travelling, May 25.

NEBRIA Latreille

- N. SAHLBERGI* Fisch. (276). Edge of Echo Lake, July 17.
- N. PALLIPES* Say (292). Taken from rubbish close to running water which it frequents. Long Pond, July 16.

BEMBIDION Latreille (*Bembidium* auct.)

Look for the Bembids on banks along the water's edge and in trash around stumps and logs, preferably damp.

B. MILITARE Csý. (567). Mt. Desert (Br.), Aug. 29.

B. SCOPULINUM (Kby.) (573). This is a distinctly northern form. One taken at Witches' Hole, Sept. 1, '37.

B. TETRACOLUM Say (588). Under stone Sea Wall, Oct. 6.

B. POSTICUM (Hald.) (648). Ireson Hill under wet stones, May 25 and June 28.

B. PATRUELE? Dej. (651). Station F171, May 28.

B. VARIEGATUM Say (660). Habitat is wet places at water's edge. N. E. Branch on wet shore, July 28. On muck ground, Sept. 17.

B. GRACILIFORME Hayw. (680). Ireson Hill under wet stones, June 28.

B. VERSICOLOR (Lec.). (723). On muck ground, Sept. 17 (Br.).

B. QUADRIMACULATUM (Linn.). (737). A specimen in the N. E. Sety. Natl. Hist. is labeled Mt. Desert, July, 1894. Grt. Heath, July 10.

B. OCCULTATOR Notm. (18620). This is a very rare species described from one spot in northern New York and so far as is known has been taken up to now from a single locality on the bank of the Peabody River in Pinkham Notch in the White Mts. The species is related to the western *B. incertum* but is perfectly distinct. One individual at Station F382.

B. QUADRATULUM Notm. (18663). Described from a single pair from northern New York. Then nine specimens were stamped from *Sphagnum* on the lower slope of Mt. Katahdin by P. J. Darlington. A large number taken by stamping *Sphagnum* at one spot in Sea Wall Bog. Related but distinct from *B. morulum*, described from a single pair from Hudson Bay.

B. CAUTUM-ANGULIFERUM. Labeled by Darlington as belonging to a group that ranges entirely across northern North America and may include several closely related forms or it may consist only of one or two variable species. The taxonomy has not been worked out.

TACHYURA Motschulsky

T. NEBULOSA? (Chd.) (803). Pretty Marsh under stone, Aug. 21.

TACHYS Stephens

T. LAEVUS (Say) (883). Under logs, moss, etc. in damp places. Mt. Desert, May 24 (Br.).

T. INCURVA Say. Station F171, May 28.

TACHYTA Kirby

T. INORNATA Say (*Tachys nana* anct. nec. Gyll.) (892). Under bark yellow birch Indian Pt., Aug. 28. Under bark spruce Boyd Road, Oct. 4. Station F392.

TACHYMENIS Motschulsky

T. FLAVICAUDA (Say) (898). A series under bark of log *Quercus borealis* in U.S.N.M.

PATROBUS Dejean

P. LONGICORNIS (Say) (901). Sec. 34 at meat trap, Sept. 19. Beech Hill under stones, Sept. 27.

TRECHUS Clairville

T. BOREALIS Schaef. (909). Foot of Newport Mtn., sifting leaf-mold, Aug. 2.

MYAS Dejean

M. CORACINUS (Say) (929). Under logs in woods, loamy soil. Lake Wood, June 13. B. H., July 17.

M. FOVEATUS Lec. (930). Seal Harbor, Aug. 24 (Nicolay).

CYLINDROCHARIS Casey

C. ROSTRATA (Newh.) (933). Hunters Beach Brook, June 19. Molasses trap Indian Pt., July 15. Not common.

PTEROSTICHUS Bonelli

- P. REJECTUS* Lec. (1005). One specimen taken in grass around pine and spruce logs Breakneck Road, May 30, '28.
- P. ADOXUS* (Say) (1006). Generally distributed and fairly common under stones and in rotten wood June 1 to last of Aug. Also taken in meat traps.
- P. (EUFERONIA) STYGIA* var. *VAPIDA* Casey. Meat trap, Station F185.

GASTRELLARIUS Casey

- G. HONESTUS* (Say) (1024). Long Porcupine Isl., mating pair, July 21. Hunters Beach Trail in birch logs, July 30. Duck Brook in birch log just hatched, Aug. 14.

EUFERONIA Casey

- E. STYGICA* (Say) (1089). Rhodora Meadow, May 21. Pretty Marsh, Aug. 21; Corfield, Aug. 30. Meat trap Middle Road, Sept. 20.
- E. CORACINA* (Newh.) (1093). Boyd Road under bark, May 24. Green Mt. summit, Aug. 5. Corfield, Aug. 20. Long Porcupine Isl. under stones, Sept. 13. Upper Breakneck Pond meat trap, Sept. 21–Oct. 10.
- E. LACHRYMOSA* (Newh.) (1097). Sept. 8, meat trap Sec. 37. Little Round Pond under bark, Sept. 21.

POECILUS Bonelli

- P. LUCUBLANDUS* Say (1162). Station F171 under wet stones, June 28. Breakneck Rd. molasses trap, June 8. Witches Hole meat trap, June 11. Corfield, July and Aug. Beech Hill under stones, Sept. 9.

OMASEUS Ziegler

- O. LUCTUOSUS* (Dej.) (1175). Little Round Pond under wet wood, July 21. S. W. Harbor ice pond, Sept. 18, under stones.
- O. CORVINUS* (Dej.) (1176). Corfield, Aug. 10–14.

DYSIDIUS Chaudoir

- D. MITTUS (Say) (1178). One specimen taken in birch logs
Long Porcupine Isl., June 26, '29.

PSEUDARGUTOR Casey

- P. ERYTHROPUS (Dej.) (1181). Ireson Hill under stone, May
29.

MICROMASEUS Casey

- M. PATRUEUS (Dej.) (1182). One taken in 1929 and record
of capture lost.

BOTURIOPTERUS Chaudoir

- B. PENNSYLVANICUS (Lec.) (1188). In forest duff, May 18
(Br.). Meat trap Upper Breakneck Rd., Sept. 10. Corfield,
Oct. 20.
- B. OBLONGONOTATUS (Say) (1190). Beaten from bushes N.
E. Branch, Aug. 23. Meat trap Penikese, Sept. 16. Scarce.
- B. ADSTRICTUS (Esch.) (1192). The only time taken was
under stones on Long Porcupine Isl., Aug. 10, '29.
- B. LUCZOTI (Dej.) (1194). B. H., May 5. Corfield tree at
night, May 11. B. H., June 10 (Br.); S. W. Harbor, July
13; Long Porcupine Isl., Aug. 10.

LEIOCNEMIS Zimmerman

- L. AVIDA (Say) (1262). Beech Hill under stones, Sept. 27.

BRADYTUS Stephens

- B. APRICARIUS (Payk.) (1267). Lake Wood, Aug. 8. Beech
Hill, under stones, Sept. 27.

CELIA Zimmerman

- C. REMOTESTRIATA Dej. (1309). Sand Pit near Sargent Drive,
Aug. 31. Scarce.

AMARA Bonvouloir

- A. CUPREOLATA Putz. (1400). One specimen taken Oct. 26. They frequent damp places under stones and logs.
- A. FALLAX Lec. (1389). A vegetable feeder. Look for the members of this genus under basal leaves which rest on the ground. B. H., June 13.

TRIAENA LeConte

- T. ANGUSTATA (Say) (1433). Mt. Desert, July 2 (Br.). Scarce.

CALATHUS Bonelli

- C. GREGARIUS Dej. (1482). The specific name indicates that they become so, which they do in cold weather. Found under logs in dry woods. Corfield, May 1. Penikese in grass, June 17. Long Porcupine in logs, Aug. 10; Breakneck Road meat trap, Sept. 3.

PRISTODACTYLA Dejean

- P. IMPUNCTATA (Say) (1489). Mt. Desert, July 15 (Br.); Duck Br., Aug. 2; Long Porcupine, Aug. 10; Half Moon Pond, Aug. 10.

PLATYNUS Bonelli

- P. SINUATUS (Dej.) (1514). This genus occurs beneath cover from damp to dry sandy places, each species following its preference. Mt. Desert, May 13 (Br.); Schooner Head in birch log, May 23; Hunters Beach Trail in log, July 30; Corfield, Aug. 10; Long Pond, Aug. 14; Witches Hole, Aug. 28 (Br.); Echo Lake, July 17.
- P. EXTENSICOLLIS (Say) (1522). Frequents the shores of ponds. Eagle Lake under stones, Aug. 15. North end of Long Pond under stones, Sept. 27, and in large numbers Oct. 10.
- P. TENUIS Lec. (1539). Witches Hole path in June.

- P. MUTATUS* G. & H. n.m. (1541). Station F171 under wet stones, May 28. Pretty Marsh Landing at tide mark, Aug. 22; Little Round Pond under wet wood, July 21.
- P. MELANARIUS* (Dej.) (1542). Rhodora Meadow flying, May 25. Mt. Desert, May 2 (Br.); S. W. Harbor, June 18. North shore Eagle Lake melon bait, Oct. 1.
- P. AFFINIS* (Kby.) (1546). Corfield, July 16. It frequents beaches. Scarce.
- P. METALLESCENS* Lec. (1551). Mt. Desert, May 1 (Br.); N. E. Branch under wet stones, July 27; Salisbury Cove, Aug.
- P. CUPRIPENNIS* (Say) (1553). Mt. Desert, May 2 (Br.); Station F171 under wet stones, May 28.
- P. HARDYI* Chd. mss. Lec. (1554). Willow catkins, May 11 (Br.). Bar Harbor, June 22; Corfield, Aug. 10.
- P. OCTOPUNCTATUS* (Fab.) (1566). But one of these beautiful beetles was taken. Ireson Hill, June 3, '37. Said to frequent sandy sparsely wooded slopes.
- P. PLACIDUS* (Say) (1567). Beech Hill under stones, Sept. 27.
- P. BOGEMANNI* (Gyll.) (1573). Corfield, June 18. Mt. Desert, June 1-Aug. 30 (Br.). N. E. Harbor, Aug. 10 (Minot).
- P. SORDENS* Kby. (1582). Penikese beating alder, Sept. 20.
- P. RUFICORNIS* Lec. (1584). S. W. Harbor, July 13.
- P. RETRACTUS* (Lec.) (1585). Long Porcupine under stones, Aug. 10.

LEBIA Latreille

- L. VIRIDIS* Say (1655). Found on flowers from the early spring until frost. Common.
- L. MOESTA* Lec. (1655b). Road Bubble Brook to Chasm Brook, July 20; Green Mt. 1200 ft. level, July 20. This is probably a color variety of *L. viridis*.
- L. PUMILA* Dej. (1658). S. W. Harbor, Aug. 20; Outlet of Eagle Lake sweeping *Solidago*, Aug. 25.
- L. ORNATA* Say (1667). Goldenrod is a favorite flower. Taken in small numbers on all parts of the Island by sweeping.
- L. FUSCATA* Dej. (1672). Bar Harbor, July 10. Not common.
- L. FURCATA* Lec. (1677). Pemetic Mt., Aug. 4 (Sanford).

DROMIUS Bonelli

D. PICEUS Dej. (1691). Search under bark for this. Corfield at light, July 18–Aug. 26; Mt. Desert, Oct. 13 (Br.). Not common.

METABLETUS Sch.-Goebl.

M. AMERICANUS (Dej.) (1699). Mt. Desert, May 2 (Br.), July 5 (Br.), Aug. 26. It is rare and found under the bark of pine.

CYMINDIS Latreille

C. CRIBRICOLLIS Dej. (1738). N. E. Harbor, July (Minot).

C. NEGLECTA Hald. (1748). Mt. Desert, Aug. 27 (Br.).

BRACHINUS Webb

B. CYANIPENNIS Say (1783). One of the Bombadier Beetles. S. W. Harbor under stones, June 18. Rare.

ANADAPTUS Casey

A. BALTIMORENSIS (Say) (2127). Station F171 under wet stones, June 3.

TRICHOCELLUS Ganglbauer

T. BOREELUS Casey (2145). S. W. Harbor, July 13.

T. RUFICRUS (Kby.) (2145a). Mt. Desert, May 10 (Br.); Station F171 under wet stones, June 28. Rare.

TACHYCELLUS Morawitz

T. NIGRINUS (Dej.) (2158). Lower Breakneck Rd. on catkins, Apr. 25; Newport Meadow, sweeping low herbage, Oct. 5.

CATHARELLUS Casey

C. CORDICOLLIS (Lec.) (2167). Eden, July 18.

STENOCELLUS Casey

S. NEGLECTUS? (Lec.) (2198). This seems to be a rare species and there are no authentic specimens in Washington. Sept. 23 (Br.).

ACUPALPUS Latreille

A. sp. L.L. Buchanan says, "These perhaps agree better with *C. trivialis* Csy. than with any other species in the U.S.N.M. and they might provisionally be identified as *A. trivialis*." Sept. 25, '37.

STENOLOPHUS Dejean

S. OCHROPEZUS (Say) (2218). Station F171 under wet stones, June 28.

S. FULIGINOSUS Dej. (2220). Bar Harbor, May 1; Mt. Desert, May 12 (Br.); Station F171 under wet stones, June 3-28. S. W. Harbor, July 13.

S. PLEBEJUS Dej. (2234). Station F171 under wet stones, June 3, '28.

S. CONJUNCTUS (Say) (2238). Sandy places. Comes to light when flying in spring. This whole genus hibernates and may be taken by sifting.

TACHISTODES Casey

T. PAUPERCULUS (Dej.) (2247). Station F171 under wet stones, June 28.

T. PARTIARIUS (Say) (2249). Station F171 under wet stones, June 3.

AGRONODERUS Dejean

A. COMMA (Fab.) (2261). Found in garden rubbish. Attracted to light. Ireson Hill under wet stones, May 28.

HALIPLIDAE

The Crawling Water Beetles

They live around the margins of brooks and ponds where they crawl over the aquatic plants that lie flat on the water. Best taken by raking vegetation onto a screen and looking for them as the material dries.

HALIPLUS Eatreille

- H. CONNEXUS Math. (2300). Pool head of Bear Br., Aug. 10 (Br.).
- H. CRIBRARIUS Lec. (2305). Pool head of Bear Br., Aug. 10 (Br.).
- H. IMMACULICOLLIS Harris (2318). This is the *rufficollis* of American authors. See Trans. Royal Can. Inst. XIX, Part 1, 1933, p. 21. Ireson Hill Pd., Sept. 30; New Mill Pd., Aug. 7; Marsh south of road near Sunken Heath. Also Stations F386, F388, F389, F394 and F396.
- H. LONGULUS Lec. (2322). Marsh near south end of Jordan Pond, Station F319.

PELTODYTES Regimbart

- P. TORTULOSUS Rbts. (2324). Pool head of Bear Br., Aug. 10 (Br.).

DYTISCIDAE. The Diving Beetles

These predaceous ones live in pools and the most sure way to take large ones is to suspend a minnow trap baited with a piece of fish. The opening of the trap should not be too large, and part of the trap should be above water so that the beetles will have air and not die, swell and so be unfit for mounting. Scraping the edges of pools will get the others. One should wade in with a long-handled net and reach across the pool under water and scrape slowly upward, keeping quiet and not casting a shadow. Results will repay the care taken.

LACCOPHILUS Leach

- L. MACULOSUS (Germ.) (2351). This "pool loving" species as its name indicates, is commonly found in the smaller pools on the Island. It is the first of the family to appear in the spring, and remains until cold weather, when it probably hibernates.

DESMOPACHRIA Babington

- D. CONVEXA* (Aubé) (2374). Station F386. This is a scarce form here. Taken in Gt. Heath in water F386. The best place for them is said to be in grass roots along the margin of water. This is the single species representing this genus in the eastern U. S.

BIDESSUS Sharp

- B. AFFINIS* (Say) (2390). Taken at Stations F384, F389, F393 and F394.

COELAMBUS Thomson

- C. INAEQUALIS* (Fab.) (2403). Stations F186 and F386. Not common.
C. FARCTUS (Lec.) (2405). Swamp E. end of Jordan Pd. Station F319. Only one specimen taken.
C. IMPRESSO-PUNCTATUS (Sch.) (2424). Stations F383 and F386. Not common.

HYDROFORUS Clairville

- H. (DERONECTES) DEPRESSUS* (Fab.) (2428). Pool head of Bear Br., Aug. 10 (Br.).
H. UNDULATUS Say (2447). Ireson Hill Pd., July 12. Pond near N. E. Branch. Sept. 1 scraping aquatic plants.
H. sp. near UNDULATUS. Series 1, Station F384.
H. sp. near UNDULATUS. Series 2, Station F383. Series 1 and 2 are different species.
H. CLYPEALIS Shp. (2452). Station F384 among trees.
H. CAROLINUS Fall (2464). Pool near Camp grounds, July.
H. CONSIMILIS Lec. (2454). A good series taken in the small swamp at the S. E. end of Jordan Pond July '39 but not taken elsewhere.
H. DENTELLUS Fall (2506). Stations F383, F384, F394 and F397.
H. NIGER Say (2514). New Mill Pond, Aug. 7; S. W. Harbor, July 14. Scarce.

H. STRIOLA Gyll. New Mill Pd., Aug. 7. Scarce.

H. BADIELLUS Fall (19206). Gr. Heath, Station F386. A species taken in mountain regions but here near sea level. A very rare species. Compared with the Fall type by Darlington.

H. RECTUS Fall (19209). Station F384.

H. sp. One individual taken New Mill Pond, Aug. 7, '34.

LACCORNIS Des Gozis

L. (AGAPORUS) DIFFORMIS Lec. One specimen taken at Station F386. For an account of the genus see Can. Ent. Vol. LXXII, 1940.

AGABUS Leach

A. SERIATUS (Say) (2539). Brook at Section II. Sept. I. A cool-water, running-brook, spring-hole species.

A. OBTUSATUS (Say) (2543). All the species in this genus are found in marshes and pools around the roots of semi-aquatic plants or under stones in wet spots. Witches Hole Brook, Aug. 14-28.

A. AMBIGUUS (Say) (2564). Great Heath, July 31, Station F386.

A. ANTHRACINUS Mamm. (2575). Where Gt. Heath touches Middle Road. Many trees. Station F384.

A. GAGATES Aubé (2580). S. W. Harbor; Bar Harbor, June 25-July 11. Also one taken in the spring on Green Mt. summit.

A. sp. Witches Hole Brook, Aug. 14.

A. sp. In almost dry brook flowing into S. W. shore of Eagle Lake, Aug. 15.

ILLYBIUS Erichson

I. SUBAENEUS Er. (2589). S. W. Harbor ice ponds, July 14. Pond at Nurseries, July 29.

I. PLEURITICUS Lec. (2590). Station F386.

I. IGNARUS Lec. (2594). Stations F384 and F397. Only males taken.

- I. *ANGUSTIOR* (Gyll.) (2595). S. W. Harbor ice ponds, July 14.
I. *BIGUTTULUS* (Germ.) (2598). Common in small ponds and pools from Aug. 1 to Sept.
I. *CONFUSUS* Aubé (2600). Station F318.
I. sp. Station F384.

COPTOTOMUS Say

- C. *INTERROGATUS* (Fab.) (2610). New Mill Pond in Aug. and at Stations F186, F383 and F389.

RANTUS Boisduval and Lacordaire

- R. *ZIMMERMANNI* Wallis. A northern form and this is the first record from Maine. Station F383.
R. *BINOTATUS* (Harr.) (2616). Two individuals taken in New Mill Pond, July 21, '34 indicating scarcity.

COLYMBETES Clairville

- C. *SCULPTILIS* Harr. (2632). Pond near Bar Harbor, June 9, '27, and Gt. Heath, July '41.

DYTISCUS Linnaeus

- D. *VERTICALIS* Say. (2638). This species had never been seen on the Island until taken in large numbers at the same time and place as that next below.
D. *DAURICUS* Gebl. (2645). This species is found in very few numbers in the smaller ponds. On July 30, '35, a man in Tremont reported that his trout were being eaten up by lizards. Upon investigation they proved to be the "water tigers" of this and (*D. verticalis*) and the pool was fairly swarming with the adults, they having evidently hatched during the previous week. Upon investigation, this spring which had been made into a pool, had no connection with any other body of water, and was on a hill and therefore the absence of the eels, which are the common enemy of this family, permitted them to multiply in peace.
D. sp. A "tiger" in the house Bar Harbor, June. (Dr. Thorndike.)

HADATICUS Leach

H. MODESTUS Shp. (2647). This is the *H. stagnalis* of authors not (Fab.). When Gt. Heath touches Middle Road. Pools always shaded. Station F384.

ACILIUS Leach

A. SEMISULCATUS Aubé (2651). Probably the most generally distributed of this family, being in most of the small ponds from the first of July until October.

GRAPHODERES Thomson

G. LIBERUS (Say) (2659). The only place this beautiful form was taken was in the pool in the center of Sunken Heath where they were in numbers. Station F345.

G. CINEREUS (Linn.) (2660). One specimen taken Station F129. Scarce.

GYRINIDAE. The Whirligig Beetles

Taken by netting them on the surface of the water.

DINEUTES MacLeay

Every place was searched for this genus in 1939 with the result that *D. horni* was taken at nineteen stations and *D. nigrrior* at sixteen.

D. NIGRIOR Robts. (2679). See above.

D. AMERICANUS Say. (2680). Record of capture lost.

D. HORNI Robts. (2681). See above.

GYRINUS Geoffroy

In 1939 Mr. K. F. Chamberlain of New York State Museum, most kindly offered to determine for me in any quantity the species that I would collect in the above genus, thus making it possible for me to make a thorough check of the Island. I started in the first of May when there was snow in the woods and at one time or another I visited every brook, lake, marsh, or other bit of water that I could find. The result is given be-

low and when one realizes that on this island there are no meandering streams with overhanging dirt banks; that the brooks are steep, rocky and swift; and that the shores of the lakes are almost entirely rocky, it is remarkable that so many species occur here.

G. MINUTUS Fab. (2684). This small form was never taken in large numbers. Stations F303; F311; F321; F325; F346; F353; F360; F361; F364; F367.

G. CONFINIS Lec. (2685). One specimen was taken in the Tarn F331 July 13, '39.

G. FRATERNUS Comp. (2686). One or two taken at Stations F331; F344; F351; F355; F359; F360 and F361. Quite a few were taken at F367 and a large number at F354.

G. AENEOLUS Lec. (2687). One specimen taken Aug. '32 of which the record of capture has been lost.

G. DICHROUS Lec. (2689). A common form that occurs in considerable numbers. Stations F310; F311; F315; F331; F346; F351; F354; F355; F359; F360; F361; F364; F367; F368; F369.

G. VENTRALIS Kby. (2691). One specimen taken in a large patch of *G. affinis* in Little Round Pond, F346, Aug. 18, '39.

G. AQUIRIS Lec. (2692). A scarce form here and a few found at Stations F331 and F332; F396 and F397.

G. AFFINIS Aubé (2696). F346.

G. PERNITIDUS Lec. (2699). A scarce form. Very few taken at Stations F321; F324; F346; F364.

G. BOREALIS Aubé (2707). Generally distributed and one of our common forms. Stations F310; F311; F312; F313; F319; F320; F322; F324; F326; F344; F345; F352; F363.

G. LUGENS Lec. (2707a). This is the predominant form here and was taken at Stations F307; F310; F313; F314; F318; F319; F320; F321; F322; F324; F325; F326; F327; F331; F332; F344; F345; F346; F347; F351; F352; F353; F354; F355; F357; F358; F359; F360; F364; F365; F366; F368; F369; F396; F397. In a series from F372 and F373 one finds specimens ranging all the way from the more or

less shining typical *lugens* to the extreme form in which the upper surface is considerably roughened and opaque with well developed reddish area on the elytra and on the extreme specimens also a reddish area on the thorax and head.

G. LATILIMBUS Fall (19250). Never found in numbers. Stations F303; F307; F310; F313; F315; F319; F321; F327; F328; F332; F344; F346; F354; F386; F396; F397.

G. LECONTEI Fall (19253). Appears to be the scarce form in the group for but a few were taken at Stations F305; F307; F313. All taken in May when the water is very cold on the Island.

G. PUGIONIS Fall (19255). A fair number taken at Stations F310; F311; F312; F314; F316; F320; F321; F326; F329; F332; F344; F345; F352; F364; F369.

G. FROSTI Fall (19257). Wherever found it occurs in numbers. Stations F316; F320; F321; F329; F331; F344; F346; F351; F352; F359; F360; F361; F369.

HYDROPHILIDAE. The Water Scavenger Beetles

By raking out aquatic vegetation or scraping the bottom and among reeds is the way to capture these.

HELOPHORUS Fabricius

H. LACUSTRIS Lec. (2743). Station F389. Scarce.

H. LINEATUS Say (2750). Great Heath maple grove, Station F382.

H. AQUATICUS Linn. (20791). Station F384. Scarce.

H. sp. A large number found in wet rubbish Bar Harbor, May 2 (Br.).

H. sp. Turning stones in Toad Hole Brook, Aug. 26.

HYDROCUS Leach

H. EXCAVATUS Lec. (2759). Large numbers of these and the two following were taken on dead water plants together probably due to the very low water. Station F388.

H. RUFIPES Melsh (2760). See above.

H. SQUAMIFER Lec. (2764). See above.

BEROSUS Leach

B. STRIATUS (Say) (2784). Pond in Eden, Aug. 13 and New Mill Pond, Aug. 7. Not common.

HYDROPHILUS DeGeer

H. OBTUSATUS Say (2795). On July 24-26 a few were taken in a pond near Bar Harbor. Duck Br. in road, May 20. Scarce.

TROPISTERNUS Solier

T. GLABER (Hbst.) (2805). Witches Hole; Salisbury Cove, June 13-Aug. A rather scarce species.
T. MIXTUS (Lec.) (2806). Station F137, Sept. 30; Station F137, Oct. 5. Not common.

HYDROBIUS Leach

H. FUSCIPES Linn. (2808). Station F386. Scarce.
H. GLOBOSUS (Say) (2810). Found under stones and around roots in brooks. Stations F128, F284, and F287, Aug. 14-28.

ANACAENA Thomson

A. LIMBATA Fab. (2814). Formerly identified as *A. infuscata* (Mots). Witches Hole Brook, July 12, '35, one specimen taken.

PARACYMUS Thomson

P. DESPECTUS (Lec.) (2818). Great Heath, Sept. 8.
P. SUBCUPREUS (Say) (2819). Sea Wall Bog in *Sphagnum*. Stations F389, and F393.
P. DIGESTUS Lec. (2825). Sea Wall Bog, July 9. Scarce.

ENOCHRUS Thomson

E. OCHRACEUS (Melsh) (2835). Sea Wall Bog in *Sphagnum*. Station F386.
E. PERPLEXUS (Lec.) (2836). Scarce. Taken only at the Narrows, Aug. 13, 1930.

- E. CINCTUS* (Say) (2837). New Mill Pond on milkweed, Aug. 29. One specimen.
E. HAMILTONI (Horn) (2841). Station F386.
E. REFLEXIPENNIS (Zimm.) (2843). In a pool at the Narrows, Aug. 17.

CYMBIODYTA Bedel

- C. FIMBRIATA* (Melsh.) (2850). Several specimens taken in a pool at the top of Breakneck Brook, Aug. 29, '35, and a few at the Narrows, Aug. 13, '30. Scarce.
C. BLANCHARDI Horn. (2851). Under stones in brooks. Station F284, Aug. 14, one specimen taken.
C. VINDICATA Fall. (19277). Mt. Desert, May 1 (Br.).

HELOCOMBES Horn

- H. BIFIDUS* (Lec.) (2853). Record of capture lost.

SPHAERIDIUM Linnaeus

- S. BIPUSTULATUM* Fab. In cow pastures such as the ones at Town Hill in Aug. and Sept.

CERCYON Leach

- C. LITTORALIS* (Gyll.) (2869). Sand Beach on melon rind, Aug. 13. Search seaweed at high tide mark for this and the next following.
C. DEPRESSUS Steph. (2870). Sand Beach, Aug. 13. Much more scarce than the two following.
C. QUISQUILINUS (Linn.) (2874). Taken under cow dung at Manset Ice Ponds, June 8; Town Hill, Sept. 1.
C. INDISTINCTUS Horn. (2880). June 14–Sept. 12. Widely spread and common, being taken from seaweed, on beach at S. W. Harbor to melon bait at Corfield and on bones at Penikese.
C. PYGMAEUS (Illig.) (2885). Taken under cow dung at Manset Ice Ponds, June 8; Town Hill, Sept. 1.

C. MINISCOLUM Melsh. (2891). Trash, fungi, etc. wet leaves. On a bone, Aug. 19.

C. HAEMORRHOIDALIS (Fab.). In cow pastures Town Hill, Sept. 1.

CRYPTOPLEURUM Mulsant

C. MINUTUM (Fab.) (2899). S. W. Harbor, July 15. Not common. Frequents fungi and carrion that is not "strong."

PLATYPSYLLIDAE

This family includes but a single species, the Beaver Beetle, which is permanently parasitic on the European and North American beaver. As there are many beavers on the Island I am including it although I have not had an opportunity to examine the host.

PLATYPSYLLUS Ritsema

P. CASTORIS Rits. (2902). Record of capture lost.

SILPHIDAE. The Carrion Beetles

As they frequent carrion and decaying fungi, they are best taken with meat traps. If the meat is placed in a small wide mouthed bottle, wire netting put over the mouth, and the bottle put in a jar in the ground, the beetles will be taken in a clean condition.

NECROPHORUS Fabricius. Burying-beetles

N. SAYI Lap. (2912). Breakneck Rd., June 18. Penikese, Sept. 16, meat traps.

N. ORBICOLLIS Say (2913). Breakneck Rd. meat trap, June 14. Penikese, Sept. 19.

N. PUSTULATUS Hersch. (2918). Penikese meat trap. Aug.

N. VESPILLOIDES Hbst. (2919). S. W. Harbor on dead shrew; Salisbury Cove on dead snake, July 11 (Sanford); Corfield, Aug. 10; Penikese, Sept. 19 in meat traps.

N. TOMENTOSUS Web. (2920). Witches Hole. Green Mt., Sept. 10-15, meat traps.

SILPHA Linnaeus

- S. SURINAMENSIS Fab. (2922). In trapping this one, use fish bait placed near shore. Corfield, June 19; Green Mt., Aug. 31; Station F34, Penikese, Sept. 18-28, meat traps.
- S. LAPPONICA Hbst. (2923). Station F153, Aug. 31; Station F156, Sept. 15; Section 34, Sept. 19, all meat traps.
- S. NOVEBORACENSIS Forst. (2927). Green Mt.; Bay Shore Drive, Sept. 8; Station F156, Sept. 15. Common and widely distributed.
- S. AMERICANA Linn. (2928). Common and widely distributed, June to Oct. Use meat traps.

NEMADUS Thompson

- N. OBLIQUUS Fall. One taken in old log infested with red rot (Br.), Sept.

CHOLEVA Latreille

- C. LURIDIPENNIS (Mann.) (2947). Taken once in meat trap, Station F155, Sept. 1.
- C. BASILLARIS (Say) (2951). Frequents dried carrion and bones. S. W. Harbor on dead shrew, July 18. Corfield flying June.
- C. CLAVICORNIS (Lec.) (2952). Meat trap Section 28, Aug. 7.
- C. HORNIANA Blanch. (2953). Same habits as above. Section 26, Aug. 7.
- C. TERMINANS (Lec.) (2955). Corfield, Sept. 5. Foot of Breakneck Road with fish bait, Sept. 9.
- C. AMERICANUS Hatch. Bar Harbor, Aug. 7, 1934.

PRIONOCHAETA Horn

- P. OPACA (Say) (2957). Station F155, meat trap, Sept. 1; Corfield melon bait, Sept. 12; Station F233 meat trap, Oct. 1.

PTOMAPHAGUS Illinger

- P. PARASITUS (Lec.) (2965). In ant nest near Sal. Cove cross-road, Sept. 11 (Br.).

P. BRACHYDERUS Lec. (2967). From an ant nest in stump, Sept. 28.

P. OBLIQUUS Fall. In old log with red rot (Br.), Sept. 23.

P. GRASCILICORNIS Fall. In carpenter ant nest in live spruce, May 1 (Br.).

HYDNOBIUS Schmidt

H. sp. Station F231, Oct. 8.

LEIODES Latreille

L. GLOBOSA (Lec.) (3021). Bar Harbor, Aug. 11.

AGATHIDIUM Illinger

A. ONISCOIDES Beauv. (3029). Witches Hole Brook under bark of wet maple log, Sept. 1. Lives under the bark of logs and trees showing fungus growth especially damp ones.

A. EXIGUUM Melsh. (3030). Reared from poplar log from Newport Meadow, June 19; under bark on wet oak Jordan Mt. summit, Sept. 3.

SCYDMAENIDAE. The Ant-like Stone Beetles

Search for them in wet places under stones and bark and in ants' nests. They have much the same habits as *Pselapids*.

EUCONNUS Thomson

E. BICOLOR (Lec.) (3063). Mt. Desert, found all summer.

CONNOPHRON Casey

C. sp. Record of capture lost.

ORTHOPERIDAE (*Corylophidae*)

The Fringe-winged Fungus Beetles

GRONEVUS Casey

G. TRUNCATUS (Lec.) (3236). Pretty Marsh Landing under stone (Br.). Sifting old wood is said to be good collecting.

STAPHYLINIDAE

The Rove or Short-winged Scavenger Beetles

They feed in decaying animal and vegetable matter upon larvae of flies, etc., and so are taken in meat traps. Fermenting cantaloupe rind is a wonderful bait. Breaking up decaying toadstools over a white bowl will give one many species that are otherwise overlooked.

PROTEINUS Latreille

P. PARVULUS Lec. (3322). Sweeping at Station F130. In U.S.N.M. Rare.

TRIGONODEMUS Leconte

T. STRIATUS Lec. (3335). Record of capture lost.

ANTHOBIUM Stephens

A. CONVEXUM Fauv. (3339). Frequents the flowers of haw and elder. Taken by beating. Bar Harbor, June 23 (Br.).

A. HORNII Fauv. (3344). Corfield on thorn blossoms, June 28.

A. POTHOS Mamm. (3347). A northern species same as above; one specimen taken S. W. Harbor, June 17.

OMALIUM Gravenhorst

O. RIVULARE (Payk.) (3387). One specimen taken in dry decayed toadstool, Oct. 3; in U.S.N.M. Rare.

O. FORAMINOSUM Makl. (3376). Over winter bait of feathers and skin at Sea Wall Bog. Rare.

ACIDOTA Mannicheim

A. CRENATA (Fab.) (3424). Found often in apple blossoms. Mt. Desert, Aug. 28–Sept. 17 (Br.).

A. SUBCARINATA Er. (3425). Western Mt. summit, Sept. 30. Bernard, Oct. 5; sweeping blueberry scrub at both places.

OLOPHORUM Erichson

O. OBTECTUM Er. (3412). Foot of Newport Mt. sweeping rank herbage F414, Sept. 18.

PARALESTIVA Casey

P. BIGUTTULA (Lec.) (3431). In leaf litter, Nov. (Br.).

TROGOPHLOEUS Mannerheim

T. sp. Pretty Marsh under stones, Aug. 21.

OXYTELUS Gravenhorst

O. LAQUEATUS Marsh (3376). Mt. Desert, Aug. 18 (Br.).

O. sp. Around the Ice Ponds at Manset, F316.

PLATYSTETHUS Mannerheim

P. AMERICANUS Er. Eden truck garden, Sept. 5.

BLEDIUS Mannerheim

B. PHILADELPHICUS Fall (3623). Station F382.

STENUS Latreille

S. LACCOPHILUS Csy. (3718). Mt. Desert, Sept. 17 (Br.).

S. JUNO (Fab.) (3719). Under logs and in rubbish in woods. Great Heath, Aug. 28.

S. MAMMOPS Csy. (3782). In moss (Br.), May 21.

S. EGENUS Er. (3788). Sea Wall Bog, Aug. 1.

S. AGEUS Csy. (3795). Mt. Desert, July 4 (Br.).

S. FLAVICORNIS Er. (3832). Look under leaves for these. S. W. Harbor, July 13.

EUAESTHETUS Gravenhorst

E. BREVIPENNIS Csy. (3863). Bar Harbor, July 25.

PAEDERUS Fabricius

P. LITTORARIUS Grav. (3952). Tremont, May 25 (Br.).

LATHROBIUM Gravenhorst

L. SIMILE Lec. (3981). A scavenger. Jordan Pond, July 4 (Sanford).

L. SIMPLEX Lec. (3985). A scavenger. Corfield, Sept. 23-Oct. 10. Melon bait.

L. sp. Two specimens, Oct. 22, '39. In U.S.N.M.

DERATOPEUS Casey

D. NITIDULUS (Lec.) (4029). Sea Wall Bog in *Sphagnum*. Station F348. July 9-Aug. 28.

STILICTUS Latreille

S. sp. near OBTUSUS. Under bark *Quercus borealis*, June 28.

XANTHOLININAE

X. gen. Bar Harbor (Br.), Sept. 22.

NUDOBIUS Thomson

N. CEPHALUS (Say) (4285). Pretty Marsh under stones, Aug. 21.

GYROHYPNUS Mannerheim

G. OBSIDIANUS (Melsh) (4296). One specimen taken at Penikese in Aug. In U.S.N.M.

G. OBSCURUS (Er.) (4308). Corfield in lawn, Aug. 11. This is species *vera* according to Fall. Another very dark individual was taken May 3 (Br.).

G. sp. Record of capture lost.

LEPTACINODES Casey

L. sp. Aug. 1938. Record of capture lost.

BAPTOLINUS Kraatz

B. MACROCEPHALUS (Nordm.) (4351). Mt. Desert, Sept. 18.

ACTOBIUS Fauvel

A. CINERASCENS (Grav.) (4372). Station F348.

PHILONTHUS Curtis

- P. POLITUS (Linn.) (4384). Penikese on bones, June 9. Aug. 26-Sept. 19.
- P. FURVUS Nordm. (4386). Narrows, Aug. 13. Mt. Desert (Br.), Sept. 17.
- P. FUSCIPENNIS Mamm. (4396). Bar Harbor, Aug. 10.
- P. VARIANS (Payk.) (4421). On fungi, Sept. 30.
- P. LONGICORNIS Steph. (4423). Corfield on fungus, Sept. 15.
- P. LOMATUS Er. (4443). Pretty Marsh Landing, Aug. 21 (Br.).
- P. CYANIPENNIS (Fab.) (4447). A widely distributed form from the middle of June to Sept. Attracted easily by melon bait.
- P. SORDIDUS (Grav.) (4450). Mt. Desert, Sept. 19 (Br.).
- P. VALIDUS Csy? (4483). Mt. Desert, May 1-4 (Br.).
- P. sp. near BIDENTATUS (4466). In leaf litter, Nov. (Br.).
- P. sp. near QUADRICOLLIS. Corfield on grass, Oct. 20. In U.S.N.M.
- P. sp. Lower Breakneck Road on catkins, Apr. 25.
- P. sp. Mt. Desert, Sept. 10 (Br.).
- P. sp. near PALLIDUS. Newport Mt. meat bait, June 15.
- P. sp. near INCIPIENS. Station F385.
- P. sp. Corfield melon bait, July 16, '39.
- P. sp. Bar Harbor (Br.), May 20, '38.
- P. sp. Bar Harbor (Br.), Apr. 9, '38.
- P. sp. Lower Breakneck fish bait, Sept. 5.
- P. sp. Bar Harbor (Br.), Aug. 29, '37.
- P. sp. Lower Breakneck fish bait, Sept. 5, '39.
- P. sp. Corfield, Oct. 22, '39.
- P. sp. Corfield, Oct. 26, '39.
- P. sp. Corfield, Oct. 22, '39.

No two of the above species are the same.

STAPHYLINUS Linnaeus

- S. BADIPES Lec. (4526). Corfield, July 16. Scarce.
- S. VULPINUS Nordm. (4532). Rhodora Meadow under stone.
- S. FOSSATOR Grav. (4543). Green Mt.; Bar Harbor, July 25–Aug. 15; Station F266, Aug. 21; Breakneck under horse dung, Aug. 3–Oct. 10. This species frequents the stinkhorn fungus.
- S. CINNOMOPTERUS Grav. (4545). Station F110, July 30; Bar Harbor, Aug. 10; Fair Grounds, Aug. 25.
- S. VIOLACEUS Grav. (4546). Wild Cat Valley, Aug. 8 (Sanford). Scarce.
- S. VIRIDANUS Horn (4548). Bar Harbor, Aug. 10; Breakneck Rd., Aug. 21–Sept. 3, meat trap. Local in distribution.
- S. PRAELONGUS Mann. (4550). Clark Cove in stump, July 30. Pretty Marsh under stones, Aug. 21 (Br.). Indian Point, Oct. 21.

OCYPUS Kraatz

- O. ATER (Grav.) (4551). Station F285, Aug. 21; S. W. Harbor, Sept. 5 (Alexander).

ONTHOLESTES Ganglbauer

- O. CINGULATUS (Grav.) (4552). Bar Harbor; S. W. Harbor, June 7–July 24; Corfield in toadstools, Sept. 5. Generally distributed but not numerous.

CREOPHILUS Mannerheim

- C. MAXILLOSUS var. VILLOSUS (Grav.) (4555b). Penikese, June 23; Station F59 and F60, Sept. 19. Generally distributed on carrion and fungi.

ACYLOPHORUS Nordmann

- A. PRONUS Er. (4565). Station F386 on *Sphagnum*.

QUEDIUS Stephens

- Q. LAEVIGATUS (Gyll.) (4575). Bar Harbor, Aug. 14.
Q. MESOMELINUS (Marsh) (4600). Corfield, May 25; Mt. Desert, June 4 (Br.); Toad Hole under bark of dying maple, Sept. 6; Mt. Desert, Sept. 17-30.
Q. HYPERBOREUS Er. (4618). Bar Harbor (Br.), May 24.

OXYPORUS Fabricius

- O. VITTATUS Grav. (4634). Western Mt. in toadstool, Sept. 13; Paradise Hill in toadstools, Sept. 27.
O. FASCIATUS Horn (4635). Duck Brook; Echo Lake, Sept. 3-11 on decaying fungi.
O. BICOLOR Fauv. (4636). Echo Lake; Long Pond; Bar Harbor, Aug. 29-Sept. 11.
O. LATERALIS Grav. (4637). Bar Harbor, Record of date lost.

HYPOCYPHTUS Mannerheim

- H. sp. Corfield, Sept. 25.

TACHINUS Gravenhorst

- T. MEMNONIUS Grav. (4652). Green Mt., Sept. 14 and Corfield, Sept. 21-24 with melon bait. Local in distribution.
T. ADDENDUS Horn (4660). Mt. Desert (Br.), Sept. 10.
T. PARALLELUS Horn (4661). Mt. Desert (Br.), May 12.
T. LURIDUS Er. (4664). Several taken at Corfield with melon bait, July 31, '34, and no others ever taken.
T. FIMBRIATUS Grav. (4665). Narrows; Bar Harbor, July 13-Aug. 10. Western Mt., Sept. 13; Corfield with melon bait and Breakneck Road in meat trap, Sept. 10. At sap crack yellow birch, Apr. 30.
T. PICIPES Er. (4666). Narrows; Bar Harbor, July 13-Aug. 10.
T. LIMBATUS Melsh. (4668). Corfield with melon bait, Sept. 12 and north shore of Eagle Lake in meat trap, Oct. 1. Scarce.

- T. PALLIPES Grav. (4670). North end Eagle Lake in meat trap, Sept. 20. Scarce. Gt. Notch Western Mt., Aug. 26.
- T. CIRCUMCINCTUS Mäkl (4673). Feather and bone bait left over winter Sea Wall Bog, May 28.
- T. PROPINQUUS Mann. (4677). Western Mt.; Lower Breakneck; Green Mt., Sept. and Oct. with melon, fish or fungi bait. A common form.
- T. n.sp. Corfield in *Amantia*. Center Trail melon bait, Sept. and Oct.
- T. n.sp. Corfield in fungi, Sept. 2.
- T. n.sp. Corfield, Oct.

TACHYPORUS Gravenhorst

- T. JOCOSUS? Say (4681). Mt. Desert, June 12 (Br.).
- T. ACAUDUS Say (4682a). Corfield on porch, Oct. 9.
- T. NITIDULUS Fab. (4686). Bar Harbor, Oct. 10.
- T. RULOMUS Blkwr. Bar Harbor, May 2–Sept. 25.

CONOSOMA Kraatz

- C. KNOXI Lec. (4695). Bred from fungi, Sept. 20 (Br.).
- C. IMBRICATUS Casey (4698). Bred from white birch, June 11; Narrows, Aug. 3 (Sanford). Corfield, Sept. 15.

BOLITOBUS Stephens

- B. CINCTICOLLIS Say (4723). All of this genus are fungi feeders and live in damp places. Cedar swamp on Eagle Lake Road in meat trap, Sept. 3. Salisbury Cove, Duck Brook, July 23–Sept. 11.
- B. ANTICUS Horn (4724). A northern form. Sweeping lower Breakneck bog.
- B. TRINOTATUS Er. (4727). In poplar log, Newport Meadow, June 12. Great Notch Western Mt., Aug. 26.
- B. CINCTUS (Grav.) (4730). Corfield on fungi, Sept. 27.
- B. QUAESITOR (Horn) (4732). In white birch fungus, Breakneck Ponds, June 1.
- B. sp. In old log with red rot, Sargent Mt. Road, Sept. 23.

BRYOPORUS Kraatz

- B. RUFESCENS Lec. (4737). Lives beneath bark and debris.
Mt. Desert, Aug. 29–Sept. 20 (Br.).

MYCETOPORUS Mannerheim

- M. PICTUS Horn (4743a). Mt. Desert on fungi, Sept. 22 (Br.).

MYLLAENA Erichson

- M. sp. Bar Harbor, Sept. 25.

BOLITOCCHARA Mannerheim

- B. sp. This genus lives in damp debris. One specimen taken
in 1933. Rare.

GYROPHAENA Mannerheim

- G. FLAVICORNIS Melsh. (4961). From dry toadstool Penikese,
Oct. 3. In U.S.N.M. Rare.

ATHETA Thomson

- A. sp. This genus lives in fungi and moist vegetable debris.
Best taken by sifting. S. W. Harbor, Aug. 26.

ALEOCHARINAE

Large series of these have been taken on fungi and set aside,
for at present nothing can be done with these.

ALEOCHARA Gravenhorst

- A. CURTULA? Goeze (5763). Mt. Desert, Sept. 17 (Br.).
A. LUSTRICA Say (5764). Station F155 in meat trap. Scarce.
A. LATA Grav. (5766). Found under carrion. Penikese in
meat trap, Sept. 16.
A. sp. Salisbury Cove, July 25.

BARYODMA Thomson

- B. BIMACULATA Grav. (5806). Salisbury Cove, Aug. 11; Penikese in meat trap, Sept. 19.
B. sp. Feather and bone trap left over winter at Sea Wall, May 28.

PSELAPHIDAE. The Ant-loving Beetles

They live beneath bark and stones and feed on minute forms. When turning stones for them, do not hurry, for they often "play dead." Sifting dry trash in the winter is productive and I have taken them by sweeping around swamps at dusk in the autumn. They excrete a substance of which ants are fond and so are tolerated and found in ants' nests.

It is said that several species of these beetles are on the border line between parasitism and predatism. See Ann. Ent. Soc. Amer., 3: 581-601, 1943, and Ent. News, 8: 197, 1944.

BASOLUM Casey

- B. sp. The only one taken. The genus is clear but specialists could not give an opinion on species. Gt. Heath, Aug. '38.

REICHENBACHIA Leach

- R. INSOLETA (Csy. (6266). Tremont flying at dusk, Oct. 10. Under bark on log *Quercus borealis*.

BRACHYGLUTA Thomson

- B. ABDOMINALIS? (Aubé) (6230). Pretty Marsh Landing under stone with ants, Aug. 21.
B. sp. Flying at dusk on edge of swamp in Tremont. All were females so species cannot be determined.

RYBAXIS Sauley

- R. CONJUNCTA Lec. (6310). Great Heath, Oct. 5, '35, sweeping (Br.).
R. CLAVATA (Bndl.) (6311). July 4.
R. sp. A female which prevents determination. Tremont, flying at dusk, Oct. 10.

PILOPIUS Casey

- P. CONSOBRINUS (Lec.) (6367). Pretty Marsh Landing under stone with ants, Aug. 21.
P. sp. near LACUSTRIS. Sal. Cove, cross road under stone, Sept. 24.

TYRUS Aubé

- T. HUMERALIS (Aubé) (6382). Taken from under bark on log. Sec. 15, Oct. 4, '34. Very rare.

PTILLIDAE

Several genera and numerous species of these minute "featherwing" beetles are to be found in abundance. They and their larvae devour the ripe spores of fungi, and the commoner species frequent old vegetable accumulations, manure, certain ripe fungi, etc. The long ciliae on their wings are thought by H. S. Barber to serve, like thistledown, to gain wide dispersal of the various species.

ACRATRICHIS Motschulsky

- A. sp. In cow pastures at Town Hill in Aug.-Sept.

SCAPHIDIDAE. The Shining Fungus Beetles

Look beneath the bark of rotten logs wherever mold or fungus is forming in damp surroundings.

SCAPHISOMA Leach

- S. CONVEXUM Say (6489). In limited numbers on fungi throughout the summer and is widely distributed.

BAEOCERA Erichson

- B. CONCOLOR (Fab.) (6515). Lives on the earlier toadstools. Not common. S. W. Harbor, July 13.

HISTERIDAE. The Hister Beetles

These are best taken with meat traps in the same manner as the Silphidae.

HISTER Linnaeus

- H. FOEDATUS Lec. (6586). Station F266, Aug. 21.
H. HUDSONICUS Csy. (6588). Lower Breakneck with meat bait, July 7.
H. COGNATUS Lec. (6592). Station F266.
H. FURTIVUS Lec. (6601). Penikese, Aug. 11. Scarce.
H. DEPURATOR Say (6606). Found in decaying fungi and other matter. Taken in meat traps. Common throughout the year.

PLATYSOMA Leach

- P. LECONTEI Mars. (6653). Taken under bark of both hardwood and pine trees. Lake Wood; Hulls Cove; July and Aug. Not common.
P. COARCTATUM Lec. (6659). Salisbury Cove under bark, June 25 (Blake).

CYLISTIX Marseul

- C. GRACILIS? Lec. (6663). Spruce stump, Penikese. This specimen has the preponderance in favor of the above species, but may be an undescribed one.

PSILOSCELIS Marseul

- P. HARRISI Lec. (6684). Base of Newport Mt. flying, June 11. Scarce.

ISOMALUS Lewis

- I. BISTRIATUS Er. (6724). Station F387.

PLEGADERUS Erichson

- P. SAYI Mars. (6756). Eden in white birch log, Eden, Aug. 25. Spruce stump opposite Penikese. Station F392.
P. sp. Record of capture lost.

SAPRINUS Erichson

- S. ASSIMILIS Payk. (6836). Found on dead fish, snakes, etc., and fairly common. Taken with fish bait in Aug. Hulls Cove, Aug. 8 (Sanford).
S. CONFORMIS Lec. (6838). Occurs on carrion, more scarce than preceding species. North end of Eagle Lake, meat bait, Sept. 20.

GNATHONCUS Duval

- G. DELETUS (Lec.) (6909). Eden, sweeping, Aug. 26. A scarce form.

LYCIDAE

Beating vegetation and searching under loose bark on trees is the only way I know of taking this family.

CALOPTERON Guérin-Ménéville

- C. RETICULATUM (Fab.) (6926). Eden crossroad, Station F349.

CAENIELLA Cockerell

- C. DIMIDIATA (Fab.) (6929). Mt. Desert, July 7 (Br.).

CELETES Newman

- C. BASALIS Lec. (6931). Eden; Echo Lake; N. E. Harbor, July 15-Aug. 23.

EROS Newman

- E. AURORA Hbst. (6939). Mt. Desert, May 25 (Br.); Cor-field flying, June 9. Scarce.

PLATEROS Bourgeois

- P. CANALICULATUS (Say) (6946). Station F23, July 14; Mt. Desert, July 19.
P. sp. Salisbury Cove, July 19.

LAMPYRIDAE

The Fireflies or Lightning Bugs

Looking under loose bark will take them on dark days but sweeping and beating is the better method. June and July are the best months. After a very dry May in both 1943 and 1944 this family were very abundant, while in 1945, after a very wet May, they were exceedingly scarce.

LUCIDOTA Laporte

- L. ATRA (Fab.) (6971). On trees in shady woods. Bar Harbor; N. E. Harbor; Echo Lake, June 16-July. Common.
- L. CORRUSCA (Linn.) (6975). Station F17, June 13; Section 15 sweeping low herbage. A common and widely distributed form with considerable size variation. Found after frost under bark of trees.
- L. CORRUSCA var. AUTUMNALIS (Melsh.) (6975a). Same as above in every respect.
- L. CORRUSCA Linn. var. LACUSTRIS (LeC.) (6975b). This form is not common. Outlet Eagle Lake sweeping *Solidago*, Aug. 25.
- L. NIGRICANS (Say) (6978). Penikese on grass, July 3; S. W. Harbor; Bar Harbor, July 20-Aug. 10.
- L. DECIPIENS (Harr.) (6979). Penikese on grass, July 3-15.

PYRACTOMENA Leconte

- P. ANGULATA (Say) (6984). Common June and July and taken by sweeping.
- P. BOREALIS (Rand.) (6985). Long Pond, June 28; Corfield on grass at night, Aug. 17.

PHOTINUS Lacordaire

- P. ARDENS (Lee.) (6990). Common, June through August.

PHOTURIS Leconte

- P. PENNSYLVANICA (DeG.) (7013). Common in July and taken by sweeping bushes.

CANTHARIDAE. The Soldier Beetles

Searching in flowers as well as sweeping and beating is the method.

CHAULIOGNATHUS Hentz

C. PENNSYLVANICUS DeG. (7051). Common on *Solidago* and allied plants. Station F264 mating, Aug. 10.

PODABRUS Westwood

- P. RUGULOSUS Lec. (7056). Corfield flying, June 6; Station F169 sweeping, June 25; N. E. Harbor, July 22.
P. DIADEMA (Fab.) (7061). Bar Harbor; S. W. Harbor; Penikese beating, June 7-July 10. Not common.
P. MODESTUS (Say) (7062). Station F200, June 24; S. W. Harbor; Echo Lake; Long Pond, June 27-July 16.
P. PUNCTATUS Lec. (7072). Bar Harbor, June 14. Scarce.
P. PINIPHILUS (Esch.) (7078). S. W. Harbor, July 14. Scarce.

CANTHARIS Linnaeus

- C. FRAXINI Say (7096). Near Toad Hole, Station F337 sweeping ferns in shade.
C. CAROLINUS Fáb. (7097). This whole genus is found on flowers and shrubs preferably in damp places and this species is fond of *Crataegus*.
C. ANGULATUS Say (7098a). Sea Wall Bog, Aug. 25. One specimen taken.
C. NIGRITULUS Lec. (7100). Bar Harbor; S. W. Harbor; Eden, July 10-15.
C. SCITULUS Say (7106). S. W. Harbor; Salisbury Cove; Bar Harbor, July 13-24.
C. ROTUNDICOLLIS Say (7113). Section 23 beating mixed shrubs, June 23. Bar Harbor; N. E. Harbor, July 7-20.
C. CURTISI Kby. (7114). Long Pond; Bar Harbor; N. E. Harbor, June 27-July 20.
C. TUBERCULATUS var. ARMIGER Couper (7119a). On alder and shrubs edging marshes. Bar Harbor, June 24; Station F70, Aug. 8. Scarce.

- C. BILINEATUS* Say (7121). Bald Mt. sweeping blueberry and wild cherry blossoms, June 6.
C. NEGLECTUS Fall (19484). Penikese beating bushes in bloom, June 15.
C. ANDERSONI Frost (19485). Corfield on oak leaves, June 20; Penikese beating, June 20.

SILIS Latreille

- S. PERCOMIS* (Say) (7152). One specimen taken at Penikese, June 1, '28.

MALTHODES Kiesenwetter

- M. CONCAVUS* Lec. (7178). Bar Harbor, July 24.
M. FRAGILIS Lec. (7179). S. W. Harbor, July 13.
M. sp. Corfield on wild roses, July. The numerous species of *Malthodes* seem to differ in the male characters, the females being at present not identifiable.

MELYRIDAE

COLLOPS Erichson

- C. TRICOLOR* (Say) (7196). Bar Harbor (Moore); Long Pond, June 27; Green Mt. on lichen 1300 ft., July 20; Section 24, July 2.

MALACHIUS Fabricius

- M. AENEUS* (Linn.) (7238). An introduced species which appears around the middle of May on low growing flowers like wild mustard, etc., and has a general distribution. Taken up to the last of June.

ATTALUS Erichson

- A. TERMINALIS* (Ef.) (7294). Bar Harbor, June 23 (Br.); S. W. Harbor; N. E. Harbor, July 20-26; Green Mt. 1200 ft., July 20.

CLERIDAE. The Checkered Beetles

They occur on trees where they prey upon the wood boring species and on shrubs and flowers.

THANASIMUS Latreille

T. DUBIUS (Fab.) (7585). Bar Harbor, June 10, '28. Very rare.

ENOCLERUS Gahan

E. NIGRIPES var. RUFIVENTRIS Spin. (7596b). Taken on spruce logs, July 3-Oct. 10; Eden; Sec. 23; Western Mt.; Corfield.

TRICHODES Herbst

T. NUTALLI Kby. (7629). "Mt. Desert" (J. C. Merrill).

HYDROCERA Newman

H. HUMERALIS var. DIFFICILIS Lec. (7646a). Penikese; S. W. Harbor, July 12-19 sweeping bushes; Green Mt. 1200 ft. on scrub, July 20.

H. LECONTEI Wole. (7648). Frequents low herbage. Penikese on *Solidago*, July 18; Green Mt. 1200 ft. on scrub, July 20.

H. SUBAENEAE Spin. (7670). Middle Road, on *Spirea*, Aug. 6.

H. VERTICALIS Say (7675). Corfield, July 7-Aug. 18.

H. PALLIPENNIS Say (7677). Robinson Mt., Aug. 24; Jordan Pond, Sept. 3; foot of Sargent Mt. N. side. All taken sweeping bushes. Penikese beaten from oak, Sept. 10. Long Pond; Echo Lake, Aug. 21-Sept. 3.

ISOHYDROCERA Chapin

I. CURTIPENNIS (Newm.) (7688). Salisbury Cove, July 12.

ZENODOSUS Wolcott

Z. SANGUINEUS (Say) (7694). Mt. Desert (Br.), July 7. Scarce.

CORYNETIDAE

PHYLLOBAENUS Spinola

P. DISLOCATUS Say (7696). Bar Harbor (Moore). Can be taken by beating dead branches.

NECROBIA Latreille

N. VIOLACEA (Linn.) (7729). Penikese, July 16–Sept. 7. Eden on dried bones of a horse, July 14.

LYMEXYLIDAE. The Ship-timber Beetles

Represented in this country by three known species. Very destructive to ships and paneling in houses.

HYLECOETUS Latreille

H. LUGUBRIS Say (7739). In a house, May 8 (Br.).

CEPHALOIDAE

Beating and sweeping rank herbage will show results.

CEPHALOON Newman

C. LEPTURIDES Newm. (7747). Taken at light and on weeds Corfield, June 29–July 9. Shows variation in color.

TYPITUM Casey

T. UNGULARE (Lec.) (7748). Echo Lake, July 17.

OEDEMERIDAE. The Oedemerid Beetles

NACERDA Stephens

N. MELANURA Linn. (7763). Corfield flying at dusk, Aug. 5.

CALOPUS Fabricius

C. ANGUSTUS Lec. (7755). Under cedar bark, June 2 (Sullivan).

ASCLERA Stephens

A. RUFICOLLIS (Say) (7800). Occurs on some spring flowers and on willow and wild plum, Witches Hole, June 13.

MORDELLIDAE. The Tumbling Flower Beetles

Beating branches and sweeping flowers is the method. In peonies is a good place to look.

TOMOXIA Costa

T. LINEELLA Lec. (7805). Duck Brook, Aug. 18, beating bushes.

MORDELLA Linnaeus

M. SCUTELLARIS Fab. (7811). Found on *Solidago* and other *Compositae* at times in numbers; Gt. Pond, Sept. 7.

M. MARGINATA Melsh. (7817). Found on flowering bushes and *Compositae* until Sept. Penikese, Sept. 7; Sec. 26, July 12; Station F288, Sept. 19.

MORDELLISTENA Costa

M. TRIFASCIATA (Say) (7838). Salisbury Cove, Aug. 11.

M. LIMBALIS (Melsh.) (7841). S. W. Harbor; Eagle Lake; Bar Harbor, July 20-29.

M. SCAPULARIS (Say) (7858). Eagle Lake, July 18.

M. CERVICALIS Lec. (7859a). "Mt. Desert" on specimen in N. E. S. N. H.

M. ERRANS Fall (7864). Bar Harbor, July 20.

M. NIGRICANS (Melsh.) (7879). Mt. Desert, July 20 (McAtee).

M. MARGINALIS (Say) (7901). Bar Harbor, Aug. 10.

M. sp. Green Mt. summit sweeping bushes, July 26.

ANASPIS Geoffroy

A. FLAVIPENNIS Hald. (7942). Found on flowers, especially those of the huckleberry, blueberry, and *Crataegus*. On catkins May 4. Generally distributed.

A. RUFA Say (7943). Sweeping flowering bushes in July. Green Mt. summit, July 26; Long Pond, July 16.

MELOIDAE. The Blister Beetles

EPICAUTA Redtenbacher

E. PENNSYLVANICA (DeG.) (8033). Middle Road on *Spiraea*, Aug. 6.

E. (MACROBASIS) FABRICII (Lec.) (8042). Found from the middle of June to last of July on meadow rue, lupin, and the like, always in small colonies of from 50 to 100. Saw a potato patch at Narrows being rapidly defoliated, July, '34.

MELOE Linnaeus

M. AMERICANUS Leach (8148). From the first of Sept. this beetle is found in the grass around orchards on goldenrod and the like until cold weather. Widely distributed, but not numerous.

PYTHIDAE. The Pythid Bark Beetles

SALPINGES Gyllenhal

S. VIRESCENS Lec. (8211). On dead spruce, Station F402. There are only 20 species in the family.

RHINOSIMUS Latreille

R. VIRIDIAENEUS Raud. (8217). Corfield, Aug. 1.

PYROCHNIDAE. The Fire-colored Beetles

Look under decayed bark for these and put pieces of fruit under bark on logs to let it ferment.

ISCHALIS Pascoe

I. COSTATA Lec. (8218). McFarland Hill, sifting leaf mold, Aug. 2.

SCHIZOTUS Newman

S. CERVICALIS Newm. (8224). Taken from under loose bark, white birch Upper Hadlock Pond, June 10. Rare.

DENDROIDES Latreille

D. CANADENSIS Latr. (8225). N. E. Harbor, July 17, under bark. Not found often. Scarce. See *Psyche*, Vol. 39, p. 36.

ANTHICIDAE. The Ant-like Flower Beetles

ANTHICUS Paykull

A. CERVINUS Laf. (8417). Pretty Marsh under stone on sand which was the proper place to find it, Aug. 21.

ELATERIDAE. The Click Beetles

All of the species of this family are vegetable feeders, either upon the roots of grasses or the juices of rotten wood. The larvae are known as "wire-worms" and are difficult to raise, as many require several years to complete their growth. They are best collected by beating and from old logs and stumps, but many may be lured to sweet bait on trees which should be visited at night. Some of the most scarce and interesting species occur on the earliest "catkins."

ADELOCERA Latreille

A. BREVICORNIS Lec. (8557). Sunken Heath, May 20–Oct. 1.
A. OBTECTA (Say) (8558). A northern form. Taken from under the bark of dead trees, Eden, June 25. Scarce.

PTYODIUS Leconte

P. ANGUINUS Lec. (8617). Mt. Desert, June 30–July 6 (Br.).

LIMONIUS Eschscholtz

L. AEGER Lec. (8631). Hunters Beach Brook sweeping fern, June 19; Penikese beating, June 21.

ATHOUS Eschscholtz

A. BRIGHTWELLII (Kby.) (8662). Beaten from foliage of oak and beech, Bar Harbor; Newport Cove, July 11–22.
A. ACANTHUS (Say) (8663). Bar Harbor, July 24; Station F212, July 21.

A. RUFIFRONS Rand. (8676). Station F24, July 15.

A. sp. Runs to *posticus*. Station F252.

LEPTUROIDES Herbst

L. DENTICORNIS (Kby.) (8699). A common form particularly in June.

LUDIUS Eschscholtz (*Corymbites* Latreille)

L. VERNALIS (Hentz) (8706). Lower Breakneck on catkins, Apr. 25. Rare.

L. RESPLENDENS (Esch.) (8707). S. W. Harbor, June 25.

L. SJAELANDICUS (Mull.) (8708). Witches Hole, June 13.

L. CYLINDRIFORMIS (Hbst.) (8721). Mt. Desert, May 12-23 (Br.).

L. APPRESSUS (Rand.) (8729). Record of capture lost.

L. TARSALIS (Melsh.) (8738). Penikese sweeping, June 17; Stations F240, F242 and F301. Common.

L. SPINOSUS (Lec.) (8739). Near Bar Harbor (Burton).

L. FALSIFICUS (Lec.) (8745). Mt. Desert, May 19-22 (Br.).

L. HAMATUS (Say) (8762). Upper Breakneck on catkins, Apr. 25; Tarn, June 4; N. E. Harbor, Aug. 13 (Minot).

L. PROPOLA (Lec.) (8763). Mt. Desert (Br.), May 20.

L. TRIUNDULATUS (Rand.) (8766). S. W. Harbor, June 27; Stations F17, F196, F242 and F278.

L. MEDIANUS (Germ.) (8769). Generally distributed and taken by beating, May 22-Aug. 23.

L. AEREIPENNIS (Kby.) (8777). Under bark and sweeping. Common.

L. NIGRICORNIS (Panz.) (8778). Echo Lake, July 12.

L. ARATUS (Lec.) (8779). Station F191; S. W. Harbor, July 10.

L. CRUCIATUS (Linn.) (8793). Narrows, June 9; Long Pond, June 10; Bar Harbor, July 22; Stations F239 and F243. Common.

L. HIEROGLYPHICUS (Say) (8796). Section 26 beating, June 24; Corfield, July 8.

HEMICREPIDIUS Germar (*Asaphes* Kirby)

- H. MEMNONIUS (Hbst.) (8814). Corfield, July 22-Aug. 14 at light; Station F133, Sept. 24.
H. BILOBATUS (Say) (8817). Record of capture lost.

CRYPTOHYPNUS Eschscholtz

- C. ABBREVIATUS (Say) (8826). Lower Breakneck on catkins, Apr. 25.
C. TUMESCENS Lec. (8841). Record of capture lost.

HYPNODIUS Stephens

- H. PECTORALIS? (Say) (8849). This small form hibernates under bark and logs. Taken but once, Green Mt. 1200 ft. sweeping scrub.

OXYGONUS Leconte

- O. MONTANUS Schaeffer (8876). Penikese, May 23, sweeping. Rare, and I am told that this is one of the few known records.

DOLOPHIUS Eschscholtz

- D. LATERALIS Esch. (8878). Beaten from blackberry flowers, tamarack, etc. Stations F24, F85, F124, F237, F243 and F268. Common.

SERICUS Eschscholtz

- S. INCONGRUUS (Lec.) (8882). Mt. Desert, May 22 (Br.).
S. HONESTUS Rand. (8884). Bar Harbor, June 8-22.

AGRIOTES Eschscholtz

- A. MANCUS (Say) (8885). Beetles in this genus are best taken by beating. Stations F94 and F130.
A. STABILIS (Lec.) (8886). Echo Lake; June 27; Penikese beating, June 20.
A. FUCOSUS (Lec.) (8888). S. W. Harbor; Long Pond; Bar Harbor, June 27-July 19.

- A. FUCOSUS var. COLLARIS (Lec.) (8888a). Station F240, May 11. Scarce.
- A. FERRUGINEIPENNIS (Lec.) (8890). Bar Harbor, June 16.
- A. LIMOSUS (Lec.) (8894). S. de M. Spring flying, May 25; S. W. Harbor; Echo Lake, July 11-17.
- A. QUEBECENSIS Brown. S. de M. Spring flying, May 25; Stations F190, F242 and F245.

AGRIOTELLA Brown

- A. BIGEMINATA Rand. Beating *Amelanchier* along Eagle Lake Road, May 20. S. W. Harbor, July 11; Green Mt. 1200 ft., July 20.

ELATER Linnaeus

- E. PULLUS Germ. (8932). Pine stump, Station F270.
- E. RUBRICUS Say (8943). Various plants Bar Harbor, July 10; Mt. Desert, May 11 (Br.); frequents *Viburnum*.
- E. APICATUS Say (8953). Under bark willow log, Station F261, July 30. Scarce.
- E. PEDALIS Germ. (8960). One taken in Tremont, May 25. This species is said to frequent larch.
- E. MIXTUS Hbst. (8964). S. W. Harbor, June 29; Mt. Desert (Br.), July 6.
- E. NIGRICANS Germ. (8969). Echo Lake, June 17; Eden on cord wood, July 2.

MELANOTUS Eschscholtz

- M. CASTANIPES (Payk.) (9015). Boyd Road under bark of pine, which is the best place to look for it; Bar Harbor; N. E. Harbor; Long Pond, in July.
- M. LEONARDI (Lec.) (9031). Corfield, June 14; Mt. Desert (Br.), June 28; Penikese beating, June 21; Station F271.
- M. COMMUNIS (Gyll.) (9035). Corfield sugaring, Aug. 5; Section 14 on poplar, Aug. 11. The larvae feed on corn roots.
- M. SAGITTARIUS (Lec.) (9059). Hull's Cove beating, July 14. Frequents elm.

CARDIOPHORUS Eschscholtz

C. GAGATES ER. (9087). Best taken by beating. Mt. Desert (Br.), May 28; Station F191; Echo Lake, June 27; Station F401.

MELASIDAE

FORNAX Castelnau

F. ORCHESIDES (Newm.) (9150). Bar Harbor, July 18 (Br.).

MICRORHAGUS Eschscholtz

M. IMPERFECTUS Lec. (9156). Bar Harbor, July 29.

EPIPHANIS Eschscholtz

E. CORNUTUS Esch. (9175). One specimen taken July 5, '36 (Br.). Very rare.

TRIXAGIDAE. The Pseudo Click Beetles

AULONOTHROSCUS Horn

A. CONSTRICTOR Say (9195). Bar Harbor; Long Pond, June 16-July 16.

TRIXAGUS Kugelann

T. CARINICOLLIS Schfr. (9203). Corfield at light, July 7. But one specimen.

BUPRESTIDAE

The Flat-headed or Metallic Wood-borers

The larvae live beneath the bark of trees which are just beginning to decay and are usually the first to attack a tree that in some way has lost its vitality. They are best taken on stumps, logs, and stacks of cord wood, in open places where they repair to sun themselves, especially in the morning. Later in the season the best method is beating isolated trees.

CHALCOPHORA Solier

- C. VIRGINIENSIS* (Drury) (9316). Usually occurs on pine where larva lives. Bar Harbor (Moore); Penikese, June 9.
C. LACUSTRIS Lec. (9317). On cord wood and fresh cut logs, June 15–July 10 in sun. Fairly common.
C. FORTIS Lec. (9320). Mt. Desert, July 9–18 (Br.).
C. LIBERTA (Germ.) (9321). Bar Harbor, July 7 (Br.). The larva is a feeder on fir.

DICERCA Eschscholtz

- D. DIVARICATA* (Say) (9333). Maple, apple, beech and cherry are the habitats of the larvae. Corfield, June 23; Morrell Park, Aug. 14; Station F152, Sept. 6.
D. CAUDATA Lec. (9334). Aug. 28.
D. PROLONGATA Lec. (9335). Upper Breakneck on poplar, June 7; Mt. Desert (Br.), June 25; Eden on cord wood, July 3.
D. TENEBROSA (Kby.) (9345). Record of date and place lost.
D. CHRYSSEA Melsh. (9346). Penikese on ground, May 29; Eden on cord wood, June 24–July 5.
D. TUBERCULATA (Cast.) (9349). Reared from larch.

POECILONOTA Eschscholtz

- P. CYANIPES* (Say) (9351). Mt. Desert (Br.), July 19–Aug. 12. Beating poplar Norway Drive Station F412.

RUPRESTIS Linnaeus

- B. SULCICOLLIS* (Lec.) (9360). Corfield, July 29. This form is very rare in New England. It is found generally along the N. shore of Lake Superior.
B. STRIATA IMPEDITA Say (9363a). On pine July–Aug.
B. MACULATIVENTRIS Say (9370). Eden, on cord wood, July 14; Corfield, July 20–Aug. 15; Morrell Park, Aug. 3.
B. NUTTALLI CONSULARIS Gory (9372a). Mt. Desert, (Br.), July 19.
B. FASCIATA Fab. (9377). Ironbound Island (Blaney).

MELANOPHILA Eschscholtz

- M. AENEOLA* Melsh. (9384). On red pine in July-Aug.
M. FULVOGUTTATA (Harr.) (9387). "Yellow-dotted Buprestis." Is found on pine and spruce logs where the larvae live beneath the bark. General distribution and common.
M. ACUMINATA (DeG.) (9391). Larva infests partly dead spruce. Bar Harbor; S. W. Harbor, Aug. 18-24.

CHRYSOBOTHRIIS Eschscholtz

A revision of the North American species of Buprestid Beetles Belonging to the Tribe Chrysobothrini has been published by W. S. Fisher, U.S.D.A. Misc. Publication No. 470.

- C. SEXSIGNATA* (Say) (9405). Station F211, July 30; Corfield, Aug. 13. Scarce.
C. PUSILLA Cast. (9448). Bar Harbor July 29. Larva infests pine and spruce. Reared from larch, July, '43.
C. TRINERVIA (Kby.) (9458). Mt. Desert (Br.), June 6-18; Eden on cord wood, July 3; Long Pond, July 16. The larvae live in pine and spruce.
C. VERDIGRIPENNIS Frost (9459). Mt. Desert, (Br.) Aug. 15.
C. ORONO Frost (19652). Witches Hole Brook, Station F74.
C. DENTIPES (Germ.) (9461). Long Pond; Bar Harbor, June 7-July 29. Taken generally in small numbers on pine and spruce logs which are the habitat of the larvae.
C. FEMORATA (Oliv.) (9466). Large numbers taken on poplar, oak, apple and other trees.
C. SCABRIPENNIS Cast. (9468). Found from latter part of June to end of July sun basking on freshly cut wood of all kinds.

AGRILUS Stephens

- A. ANXIUS* Gory (9504). The Bronze Birch-borer. The larvae of this whole genus live in stems and twigs of shrubs and trees. Adults best taken by beating. Penikese, June 21; Corfield, July 22; Witches Hole on raspberry, July 24; Western Mt., Sept. 13.

- A. PENSUS Horn (9512). Mt. Desert, June 27 and Salisbury Cove, Aug. 12 (Br.).
- A. RUFICOLLIS (Fab.) (9513). The Red-necked Borer, Salisbury Cove, July 23. The larva bores into the stalks of blackberries and raspberries. Taken eating blueberry leaves.
- A. LATERALIS (Say) (9514). Eden; S. W. Harbor, July 14-21. It breeds around the base of *Myrica*.
- A. POLITUS (Say) (9542). Eden, July 23.
- A. OBSOLETOGUTTATUS Gory (9547). Section 26 mating pair, June 24; Mt. Desert, Aug. 9. Oak is the host.
- A. COMMUNIS var. RUBICOLA Abeille (19658). This was formerly (*A. viridis* var. *fagi* Ratz.). Station F242 from catkins, Apr. 21; Station F247 sweeping ferns, July 2.

BRACHYS Solier

- B. AEROSUS Melsh. (9572). Bar Harbor, June 22; Penikese, July 12; Station F99. Larva lives in oak and elm.
- B. AERUGINOSUS Gory (9573). Eden, July 18. Beaten from oak which is the host tree.
- B. ORNATA var. BELPORTI (9574a). Nicolay & Weiss. Reared ex *Quercus borealis*.

TAPHROCERUS Solier

- T. GRACILIS (Say) (9578). Great Heath, Sept. 25-Oct. 7.

PSEPHENIDAE

PSEPHENUS Haldeman

- P. HERRICKI DeKay (9586). But one specimen taken, July 12, 1935 at New Mill Pond outlet creeping over wet stones as is its custom. One of the four species that represent the genus in this country. Brook from Toad Hole. The larva is called Water Pennie.

HELMIDAE

One of course goes to the brooks for these, and their relatives, the Dryopidae. For the best method of collecting, see Dr. Musgrave in Canadian Entomologist, Vol. LXVII, No. 3, March, 1935.

STENELMIS Dufour

- S. CRENATA (Say) (9609). The only one of the family that is taken generally. Duck Brook; Witches Hole Brook; Breakneck Brook, and outlet of New Mill Pond, July 7-Aug. 24.
- S. CONCINNA Sandh. Brook at Toad Hole. This is a Northern form and the first record from Maine. Series taken Aug. 26.

HELMIS Latreille

- H. QUADRINOTATA Say (9618). N. E. shore of Long Pond washed from plant roots, July 21.

LIMNIUS Erichson

- L. TARDELLUS Fall. But one specimen taken in Witches Hole Brook, July 12, '35. I am using the old name. It is now (*Heterlimnius* (*Limnius*) *tardellus*).

MACRONYCHUS Müller

- M. GLABRATUS (Say) (9640). But two specimens taken at New Mill Pond outlet, July 20, '35.

HETEROCERIDAE. The Mud-loving Beetles

HETEROCERUS Fabricius

These live in galleries, which they make in the sand or mud along the borders of streams.

- H. UNDATUS var. MOLLINUS Kies. (9643c). Great Heath, swept from *Myrica* (Br.). Oct. 5.
- H. BRUNNEUS Melsh (9648). Brook east of Section 20 in bank.

DASCILLIDAE. The Soft-bodied Plant Beetles

Beating trees and bushes and sweeping scrub is the method for this family.

MACROPOGON Motschulsky

- M. RUFIPES Horn (9658). Canyon Brook 1000 ft., July 20;
Half Moon Pond, July 21.

EURYPOGON Motschulsky

- E. NIGER (Melsh.) (9659). Bar Harbor, June 23 (Br.);
Eden, July 8. Said to frequent oak.

HELOIDAE

Beating for some and sweeping for others is the course to pursue in this group.

HELODES Latreille

- H. MACULICOLLIS Horn (9686). June, '35 (Alexander).
H. PULCHELLA Guer. (9687). Sweeping scrub on Green Mt.
1200 ft., July 20.
H. PULCHELLA Guer. (9687). The form that has the humeral
spots united to the elytral vittae and a scarce one. Green
Mt., July 4.

CYPHON Paykull

- C. RUFICOLLIS (Say) (9692). Taken by beating leaves of
bushes and trees Bar Harbor, June 22.
C. OBSCURUS Guér. (9696). Occurs on grass in low areas.
Seal Cove Brook on wild carrot and ferns, Aug. 8. Dis-
appears with frost.
C. COLLARIS (Guér.) (9697). Said to occur on tamarack.
Taken by sweeping along banks of Somes Sound Inlet at
edge of woods, June 22; Bar Harbor; Eden, July 15-24.
C. COLLARIS (Guér.) (9697). Species near or possibly a n. sp.
Elytral disk different. Green Mt., July 4.
C. VARIABILIS (Thunb.) (9698). Paradise Hill on fungus.
Sweeping on Great Heath. Somes Sound Inlet sweeping.
Beginning on willow catkins Apr. 27, I have taken it until
frost in October.
C. PADI (Linn.) (9699). Swept from ferns nearly dead at
Bubble Brook, Oct. 1.
C. sp. Station F308.

PRIONOCYPHON Redtenbacher

P. DISCOIDEUS (Say) (9703). Corfield at light, July 23; Bar Harbor, July 20. Scarce.

P. LIMBATUS Lec. (9704). Corfield at light, July 24. Not common.

The two species above are the only ones listed in the Leng Catalogue.

SCIPTES Illiger

S. TIBIALIS Guér. (9708). Beaten from bushes at edge Witches Hole, July 30. Edges of ponds, natural habitat.

S. ORBICULATUS (Fab.) (9709). Road to Toad Hole, July 6.

BYTURIDAE

BYTURUS Latreille

B. RUBI Barber. Feeds on the flowers of blackberry and raspberry. The white "raspberry fruit worm" found on the inside of the berry is the larva. Bar Harbor, July 10. See U.S.D.A. Misc. Pub. No. 468, Jan., 1942.

B. sp. One specimen taken at Station F308.

B. sp. One specimen taken beating catkins along the Middle Road, Apr. 23, F308.

DERMESTIDAE

One does not have to search for these. They come to the cabinets freely and of their own accord.

DERMESTES Linnaeus

D. CYLINDRICUS Casey (9726). Corfield, May 30. Scarce.

D. TALPINUS Mann (9730). Penikese meat trap, Sept. 19, '29. Scarce.

D. LARDARIUS Linn. (9737). The Larder beetle. Common and general distribution. Easily taken with a piece of bacon. It is on the wing with us the last of May.

D. VULPINUS Fab. (9732). Record of capture lost.

ATTAGENUS Latreille

- A. PICEUS Oliv. (9742). Black Carpet Beetle, Bar Harbor, July (Moore); Bar Harbor, May 19–June 1 (Br.). Penikese, July 25.

TROGODERMA Latreille

- T. INCLUSA Lec. (9785). Bar Harbor, Apr. 20 (Br.).

ANTHRENUS Latreille

- A. SCROPHULARIAE (Linn.) (9829). Buffalo Carpet Beetle. Common in white daisies eating center. Appeared in eastern U. S. from Europe about 1874 and has become our most serious household pest.
- A. MUSEORUM (Linn.) (9837). Museum Beetle. On flowers of *Ilex verticellata* Bar Harbor, July 8 (Br.); Eagle Lake; Great Pond, July 16–Aug. 10. Sweeping.

BYRRHIDAE. The Pill Beetles

They live around the edge of water in the roots of grasses and the way to take them is to dig or pull up roots, particularly in sandy places and search for them there.

CYTILUS Erichson

- C. ALTERNATUS (Say) (9864). Fawn Pond on leaves under water, June 30. Bar Harbor, June 10 (Br.). Not common.

BYRRHUS Linnaeus

- B. AMERICANUS Lec. (9869). Taken in logs Lake Wood, June 13. Corfield flying, July 7; S. W. Harbor, July 13, Green Mt., Aug. 17.
- B. GEMINATUS Lec. (9873). In moss, Oct. (Br.). Also found around roots of grass tufts in loose soil.

OSTOMIDAE (*Trogositidae*)

The Grain and Bark-gnawing Beetles

Recent studies have lifted the curse that was on this family for gnawing grain, as it appears that they are there to gnaw the larvae of those that do. However, the best place to take them is under bark, particularly where fungus is at work.

TENEBROIDES Piller and Mitterpatcher

T. CORTICALIS (Melsh) (9994). Tarn under bark of dead maple. Under bark of birch and *Quercus borealis*. Station F387.

T. sp. Under bark of dead maple at the Tarn, May 23.

CALITYS Thomson

C. SCABRA (Thumb.) (9998). Taken from old fungus on stump Bar Harbor, Oct. 7 (Br.).

THYMALUS Latreille

T. MARGINICOLLIS Chev. (10010). Bred from white birch fungus *Polyporus betulinus*, July 27. Common.

NITIDULIDAE. The Sap-feeding Beetles

Any syrupy liquid with a fruit flavor will attract these, but the best bait I have found is cantaloupe rind placed loose in some paper on the ground in an open, but shaded, place. Anything that is fermenting is good bait.

COLOPTERUS Erichson

C. TRUNCATUS (Rand.) (10032). Bay Shore Drive sweeping, Sept. 12.

CONOTELUS Erichson

C. OBSCURUS Er. (10035). Large numbers in the flowers of bind weed (*Convolvulus*) Middle Road early in July.

CARPOPHILUS Stephens

C. HEMIPTERUS (Linn.) (10042). A fruit and sap eater. Bar Harbor (Br.), Sept. 1.

NITIDULA Fabricius

N. RUFIPES (Linn.) (10067). Eden, July 14. Not common.

OMOSITA Erichson

O. COLON (Linn.) (10069). An introduced European species. Common throughout the summer and probably hibernates, as it is an early arrival. On fungi, bones, and may be taken with melon bait.

EPUREA Erichson

E. HELVOLA Er. (10073). Occurs all summer from sap to fermenting fruit and fungi. Taken with melon bait. September best month.

E. IMMUNDA Sturm. (10081). (*terminalis* Mann.). Corfield, Sept. 12, with melon bait. Nurseries Sept. 7 on *Polygonum* sp.

E. PELTOIDES Horn (10091). Corfield, June 28 with melon bait. Rare.

E. sp. Corfield on melon bait, Oct. 10.

BRACHYPTEROLUS Grouvelle

B. MORDELLOIDES (Notm.) (19687). Mating pair in butter and eggs, (*Linaria*) at Flying Place, Sept. 18.

PHENOLIA Erichson

P. GROSSA (Fab.) (10109). Under oak bark in *Polyperus sulphureus*, Thompson Farm, Sept. 11 (Br.).

STELIDOTA Erichson

S. GEMINATA (Say) (10098). Occurs on sap in spring and decaying fruit throughout the summer. Common.

S. OCTOMACULATA (Say) (10099). Occurrence like above. Not common. Lake Wood, June 21.

CRYPTARCHA Shuckard

C. AMPLA Er. (10129). A sap eating beetle. Taken with melon and meat bait various places, June 28-Sept. 22. Common.

GLISCHROCHISUS Reitter (*Ips* of authors)

G. FASCIATUS (Oliv.) (10137). Taken all summer from sap and fermenting fruit. Common.

G. QUADRISIGNATA var. VERA (Say) (10137). Same as above, Corfield, Sept. 12. Rare.

G. SANGUOLENTUS (Oliv.) (10138). Same as above. Corfield melon bait, Sept. 12. Not common.

G. QUADRISIGNATUS (Say) (21854). Same as above as to food. Not common. Corfield, Sept. 12.

G. SIEPMANNI Brown (21855). Corfield melon bait, Sept. 22. Not common.

RHIZOPHAGIDAE

Under bark is the place to search for these.

RHIZOPHAGUS Herbst

R. REMOTUS Lec. (10152). Mt. Desert under bark, Sept. 18 (Br.).

MONOTOMIDAE

MONOTOMA Herbst

M. PRODUCTA Lec. (10158). Taken from seaweed gathered on the beach at S. W. Harbor, Sept. 20.

CUCUJIDAE

SYLVANUS Latreille

S. BIDENTATUS (Fab.) (10198). Under bark and in grain in old buildings. Sifting is best method. Taken in rotten apples (Br.), Sept. 4.

CUCUJUS Fabricius

C. CLAVIPES Fab. (10221). Occurs under bark of freshly felled poplar, etc. One taken in a spider web and one on beech (Br.). One at Corfield, Apr. 30–May 22. Rare.

EROTYLIDAE. The Pleasing Fungus Beetles

TRITOMA Fabricius

T. DISSIMULATOR Cr. (10310). Adults frequent fungi in late summer to oviposit and the larvae feed upon the juices. Newport Meadow in poplar log, June 12.

T. MACRA Lec. (10332). Breakneck Road on fungus under white birch bark (Br.), Sept. 19. Some in pupal cases.

DERODONTIDAE. The Tooth-neck Fungus Beetles

LARICOBIVS Rosenhauer

L. ERICHSONI Rosenh. (10350). Mt. Desert, Apr. 26 (Br.).

DERODONTUS Leconte

D. MACULATUS (Melsh.) (10353). Reared from *Hydnum caputursi* on beech. Emerged Oct. (Br.).

CRYPTOPHAGIDAE. The Silken Fungus Beetles

As the name implies, this family feeds to quite an extent upon Cryptograms. The various species, however, have their own habits.

TELMATOPHILUS Heer

T. AMERICANUS Lec. (10360). Occurs on the flowers and leaves of the arrow-arum *Peltandra virginica* L. Bar Harbor, June 13–Aug. 18. On flowers of *Castalia odorata*.

T. sp. Bar Harbor, July 8, '36 (Br.).

ANTHEROPHAGUS Latreille

A. OCHRACEUS Melsh (10370). Gt. Heath on *Spiraea*.

Although there is much *Spiraea* on the Island I have never taken but one individual.

A. CONVEXULUS Lec. (10372). Said to occur on flowers. Taken by sweeping Echo Lake, July 12.

CRYPTOPHAGUS Herbst

- C. CELLARIS Scop. (10385). Taken in meat trap Pekinese, Sept. 16. Rare.
- C. sp. Taken in old house with bacon bait, Aug. 15, '33. W. S. Fisher says, "This does not seem to be like any of our known species. It is more closely allied to the Pacific Coast species than to the Eastern forms."
- C. sp. Mt. Desert (Br.), Sept. 28. It is most difficult to distinguish species in this genus.

HENOTICUS Thomson

- H. SERRATUS (Gyll.) (10418). Bar Harbor. In dry fungus on oak, June 6 (Br.).

ATOMARIA Stephens

- A. sp. Mt. Desert, Sept. 10 (Br.).

ANCHICERA Thomson

- A. EPHIPPIATA Zimm. (10463). Bar Harbor (Moore). Not common. There are dozens of undescribed, imported species in this genus which no one has named.
- A. OCHRACEA Zimm. (10471). Corfield at light, July 7.
- A. CURTULA Casey (10472). Beating spruce at Sea Wall, Sept. 22.
- A. OVALIS Casey (10483). Corfield at light and on fungi, July 7-Sept. 2.

MYCETOPHAGIDAE. The Hairy Fungus Beetles

Searching fungus and baiting with fermenting fruit is the way to try for these.

TYPHAEA Curtis

- T. STERCOREA (Linn.) (10509). Taken with melon bait Corfield, Sept. 12. Rare.

LITARGUS Erichson

L. DIDESMUS Say (10517). But one specimen ever taken. On melon, Corfield, July 18.

COLYDIDAE. The Cylindrical Bark Beetles

Under the bark of damp logs, particularly in spots where fungus is working, in shady woods is the place to look for these.

CERYLON Latreille

- C. CASTANEUM Say (10598). Witches Hole Brook under bark wet maple log, Sept. 1.
C. UNICOLOR (Zieg.) (10599). In rotting poplar log Sept. 28. Homotype compared with the unique Leconte type.
C. CLYPEALE Csy. (10602). From poplar log Newport Meadow, June 19.

LATHRIDIDAE. The Minute Brown Scavenger Beetles

Sweeping and shifting dry trash collected around buildings yields results. Drying sweepings and then sifting them is a good method.

LATHRIDIVS Herbst

- L. LIRATUS Lec. (10631). Witches Hole, June 13; sweeping Sec. 16, Aug. 17. Not common.

ENICMUS Thomson

- E. MINUTUS (Linn.) (10642). Being a scavenger it likes dark, damp places, Aug. 18.

CARTODERE Thomson

- C. ARGUS Reit. (10662). Scavenger? On oak leaves infested with *Brachus* (Br.).

CORTICARIA Marsham

- C. SERRATA (Payk.) (10685). Occurs in fungi. May be taken at light. May 15 (Br.).

- C. DENTIGERA Lec. (10689). Mt. Desert, Aug. 13 (Br.). Scarce.
- C. FERRUGINEA Marsh. (10694). Taken when sweeping damp places near Great Pond, July 16. Scarce.

MELANOPHTHALMA Motschulsky

- M. PICTA Lec. (10696). Mt. Desert, Sept. 25 (Br.).
- M. VILLOSA Zimm. (10699). Tremont (Br.), Sept. 9.
- M. DISTINGUENDA Com. (10701). Taken at the same time as (*M. gibbosa*) mentioned below.
- M. PUMILA Lec. (10703). Sweeping along road beside Witch Hole (Br.), Aug. 6.
- M. GIBBOSA Hbst. (10705). Occurs in swampy places. Taken from an old nest of the Ugly-nest Tortricid (*Archips cerasivorana*), Aug. 27 and beaten from spruce.
- M. CAVICOLLIS Mann. (10713). Taken from toadstool roots Eden, Aug. 7. Not common.
- M. sp. Sweeping cut-over land Eden, July 19, Station F335.

ENDOMYCHIDAE. The Handsome Fungus Beetles

The same collecting methods as mentioned above hold also for this family.

MYCETINA Mulsant

- M. PERPULCHRA (Newn.) (10727). Taken in fungus S. W. Harbor, July 13. Rare.
- M. TESTACEA (Ziegl.) (10730). Foot of Newport Mt., sifting leaf-mold Aug. 2. Rare.
- M. HIRTA Marsh. In a house July.

ENDOMYCHUS Panzer

- E. BIGUTTATUS Say (10753). Ironbound Isl. (Blaney).

PHALACRIDAE. The Shining Flower Beetles

Sweeping is the method here.

PHALACRUS Paykull

P. POLITUS Melsh. (10773). Mt. Desert (Br.), Sept. 17.

OLIBRUS Erichson

O. SEMISTRIATUS Lec. (10780). Swept from *Solidago*, Sec. 16, Aug. 14. Common.

O. PALLIPES (Say) (10786). Taken from *Solidago*, Bar Harbor; Narrows; Seal Harbor, July 24–Aug. 20.

O. sp. Mt. Desert (Br.), Aug. 23; Corfield, Sept. 17.

STILBUS Seidlitz

S. sp. Station F270, Oct. 5. Scarce.

COCCINELLIDAE. The Lady Beetles

The “lady bugs” are among the most beneficial of insects. As they feed upon the bark lice as well as plant lice, they are taken by beating and sweeping.

HYPERASPIS Chevrolat

H. BIGEMINATA (Rand.) (10877). Bar Harbor sweeping, Aug. 16.

H. UNDULATA (Say) (10930). Bar Harbor in house, Nov. 18.

BRACHYACANTHUS Chevrolat

B. URSINA (Fab.) (10972). Occurs on the leaves and flowers of milkweed (*Asclepias*). Long Pond, Aug. 21.

MICROWEISEA Cockerell

M. MARGINATA (Lec.) (10988). Mt. Desert (Br.), Sept. 12.

STETHORUS Weise

S. PUNCTUM (Lec.) (10998). Mt. Desert, July (McAtee).

SCYMNUS Kugelann

S. CAUDALIS Lec. (11024). This whole genus are readily taken by beating and sweeping foliage in Spring and early Summer. Long Pond; Echo Lake; Eden, June 26–July 15.

- S. INDUTUS* Csy. (11034). Bar Harbor on willow catkins (Br.), May 11.
S. PUNCTICOLLIS Lec. (11035). Mt. Desert (Br.), May 23.
S. TENEBROSUS Muls. (11055). S. W. Harbor, Aug. 20.
S. NANUS Lec. (11079). Breakneck Road on willow catkins, May 11.
S. AMERICANUS Muls. (11082). Sea Wall Bog, Sept. 4.
S. QUADRITAENIATUS Lec. (11111). Sweeping at Witches Hole, Aug. 18.
S. MYRMIDON Muls. (11112). Mt. Desert (Br.), July 21.
S. sp. Bar Harbor, May 10.
S. sp. Station F308.

PSYLLOBORA Chevrolat

- P. VIGINTI-MACULATA* (Say) (11150). Twenty-spotted Lady-beetle. Generally distributed and taken in small numbers all summer by sweeping.

ANISOSTICTA Chevrolat

- A. BITRIANGULARIS* Say (11154). A northern form, Station F173 and F286; S. W. Harbor; Narrows, June to middle of Sept. Common.
A. BITRIANGULARIS Say var. Station F173, Aug. 2.

HIPPODAMIA Chevrolat

- H. TREDECIM-PUNCTATA* (Linn.) (11162). Thirteen-spotted Lady-beetle. Hibernates under sticks and leaves along edges of fields. Taken by sifting in autumn and sweeping in summer. Station F70.
H. PARENTHESIS (Say) (11163). Same habits as above. Eden sweeping, Sept. 6; Station F113, Sept. 19.
H. CONVERGENS Guér. (11173). Same habits as above. Wide-spread in small numbers.

COCCINELLA Linnaeus

- C. PERPLEXA* Muls. (11181). Three-banded Lady-beetle is a generally distributed common form particularly in Aug. and Sept. Taken by sweeping as are all members of this genus.
- C. TRICUSPIS* Kby. (11183). Mt. Desert, May 12 (Br.); Newport Meadow, Sept. 9; Station F289.
- C. NOVENNOTATA* Hbst. (11184). The Nine-spotted Lady-beetle hibernates under mullein leaves and logs. Richardson Brook beating, July 2. Scarce.
- C. TRANSVERSOGUTTATA* Fald. (11185). Another common and well distributed form with Aug. and Sept. optimum months.
- C. TRANSVERSOGUTTATA* var. *15 NOTATA* Kby. (11185a). Record of capture lost.

ADALIA Mulsant

- A. BIPUNCTATA* (Linn.) (11193). Often hibernates in buildings. A very beneficial insect. Common and generally distributed.
- A. FRIGIDA* Schnied. (11194). Same habits as above. Record of capture lost.
- A. OPHTHALMICA* Muls. (11195). Same habits as above. On catkins (Br.), May 11.

CLEIS Mulsant

- C. PICTA* (Rand.) (11196). In small numbers and scattering, June 10–Sept. 19. Taken by beating. Some come to light.
- C. PICTA* (Rand.) var. *CONTEXTA* Muls. (11196). One specimen taken Sept. 27, '33.
- C. PICTA* var. *IMPICTIPENNIS* (Ws.) Mt. Desert, Oct. 14 (Br.).
- C. HUDSONICA* Csy. (11197). Laboratory, Aug. 11.

ANISOCALVIA Crotch

- A. DUODECIM-MACULATA* (Geb.) (11200). Twelve-spotted Lady-beetle. Eden, July 27.

- A. QUATUORDECIMGUTTATA (Linn.) (11201). The Fourteen-spotted Lady-beetle has a wide distribution from July until frost. Is easily attracted to light.
- A. 14-GUTTATA var. SIMILIS (Rand.) (11201a). Bar Harbor, June 11-15; July 8 (Br.).
- A. 14-GUTTATA Cr. var. CARDISCE (Rand.) (11201b). Bar Harbor, May 1; Mt. Desert, Sept. 18 (Br.).
- A. 14-GUTTATA var. (Linn.). Bar Harbor, Aug. 3.

ANATIS Mulsant

- A. QUINDECIMPUNCTATA var. MALI (Say) (11202a). The Fifteen-spotted Lady-beetle. Frequents the flowers of *Crataegus*. Corfield at light, July 13; scattered in small numbers.

NEOMYSIA Casey

- N. PULLATA (Say) (11205). July 11, Corfield at light; Laboratory, July 30.
- N. RANDALLI Csy. (11209). Bar Harbor (Br.), July 13. Scarce.

CHILOCORUS Leach

- C. BIVULNERUS Muls. (11217). The Twice-stabbed Lady-beetle is quite a flier on the first Spring days. Hibernates in rubbish. Penikese beating apple, Aug. 14.

EPILACHNA Chevrolat

- E. VARIVESTIS Muls. In the garden on the Sturges property.

ALLECULIDAE (Cistelidae).

The Comb-clawed Bark Beetles

Searching under bark and beating especially dead branches is best here.

HYMENORUS Mulsant

- H. NIGER (Melsh.) (11246). Found in the dead branches of oak. N. E. Harbor (Minot).
- H. PILOSUS (Melsh.) (11251). Occurs on and under the bark of willow. Bar Harbor, July (Moore).

ISOMIRA Mulsant

- I. QUADRISTRIATA Couper (11311). Occurs on shrubs along the borders of marshes and best taken by beating. Common, June 20–Aug. 10.

CAPNOCHROA Leconte

- C. FULIGINOSA (Melsh.) (11320). Beating bushes Dry Mt., July 17 (Sanford). Scarce.

MYCETOCHARA Berthold

- M. BICOLOR Coup. (11336). On fungi under bark. Corfield, July 17.

ANDROCHIRUS Leconte

- A. ERYTHROPUS (Kby.) (11355). Found in moist places on bushes. Taken beating at Narrows, July 27.

TENEBRIONIDAE. The Darkling Beetles

The species on this Island are found for the most part beneath bark or in fungi.

PHELLOPSIS Leconte

- P. OBCORDATA (Kby.) (11671). Common, June 10–Aug. 8. It lives in the white birch fungus (*Polyporus betulina*).

BLAPSTINUS Latreille

- B. METALLICUS (Fab.) (12207). Frequents rubbish in sandy places. Corfield, June 7.

BOLITOTHERUS Candéze

- B. CORNUTUS (Panz.) (12295). Bar Harbor, Jordan Pond, July 21–Sept. 1. Bred from “shining tree fungus” (*Fomes lucidus*).

DIAPERIS Geoffroy

- D. MACULATA Oliv. (12305). Lives in the white birch tree fungus (*Polyporus betulina*). Jordan Pond; Seal Harbor, June 10–Aug. 6.

SCAPHIDEA Redtenbacher

- S. AENEOLUM (Lec.) (12311). Beaten from spruce, Aug. 23 and Sept. 12 (Br.).

TRIBOLIUM MacLeay

- T. FERRUGINEUM (Fab.) (12343). Taken in flour, Apr. 28, '37 (Br.). Scarce.

HYPOPHLOEUS Fabricius

- H. PARALLELUS Melsh (12374). Spruce log near old farm near Sunken Heath.

SCOTOBATES Horn

- S. CALCARATUS (Fab.) (12386). Occurs under bark of dead logs. Also under stones. Sieur de Monts Spring, July 22; Sec. 20 under bark of dead spruce.

IPTHIMUS Truqui

- I. OPACUS Lec. (12405). Occurs under bark and logs and is found traveling in June. Corfield, June 16; McKinley, July 20; Breakneck Drive, Sept. 3.

UPIS Fabricius

- U. CERAMBOIDES (Linn.) (12411). Under old board Norway Drive, Sept. 19; under bark of spruce log Boyd Road, Oct. 10; Robinson Mt. (Sanford).

TENEBRIO Linnaeus

- T. MOLITOR L. (12414). An introduced species the larva of which is known as the "meal worm." Occurs in feed stores, barns, etc. A common pest.
- T. PICIPES Hbst. (12415). In nest of *Camponotus herculeanus* in maple log. Newport Meadow, June 12. Scarce.

PARATENETUS Spinola

- P. PUNCTATUS Spin. (12432). Beaten from white birch along the brook Norway Drive, Sept. 6; beaten from spruce (Br.), Aug. 10.

LAGRIIDAE. The Lagriid Bark Beetles

ARTHOMACRA Kirby

- A. AENEAE (Say) (12497). Taken by sweeping bushes and high weeds. S. W. Harbor, June 21; Echo Lake, July 12; New Mill Meadow, Aug. 12.

MELANDRYIDAE. The Melandryid Bark Beetles

They live under bark, but may be taken by beating.

ABSTRULIA Casey

- A. TESSELLATA (Melsh.) (12521). Occurs in decaying twigs. Corfield, Aug. 10. Rare anywhere.

PENTHE Newman

- P. OBLIQUATA (Fab.) (12527). Taken under bark of old yellow birch log, Sec. 15, Sept. 3. Scarce.
- P. PIMELIA (Fab.) (12528). Occurs under bark on decaying logs. Corfield, June, '29; Bar Harbor, July 10–Aug. 12; Tarn under the bark of a dead maple, May 23. Western Mt. summit under spruce bark, Sept. 30.

ORCHESIA Latreille

- O. CASTANEA Melsh. (12546). Reared from larch June 7.

EMMESA Newman

- E. LABIATA (Say) (12553). Bar Harbor, July.
- E. CONNECTENS Newm. (12554). Beaten from shrubs Robinson Mt., June 26, '27. Rare.

XYLITA Paykull

- X. LAEVIGATA (Hellw.). (12557). With tanglefoot May 25.
Witches Hole.
X. LIVIDA Sahlb. Witches Hole with tanglefoot June 4.

SERROPALPUS Hellenius

- S. SUBSTRIATUS Hald. (12568). Said to frequent wounds on
conifers. June 10–Aug. 11. Scarce.
S. COXALIS Mank Reared from larch July 7.

MYSTAXUS Kugelann

- M. SIMULATOR Newh. (12569). Beating oak Penikese, June
6; Witch Hole with tangle foot June 4. This beetle is ex-
tremely rare. First record from Maine.

DIRCAEA Fabricius

- D. QUADRIMACULATA (Say) (12570). Beaten from spruce,
Aug. 10; The Gorge Sept. 10.

PHLOEOTRYA Mulsant

- P. VAUDOUERI Muls. (12571). Occurs under bark. Taken on
fir trunk, July 7, '36, (Br.). Rare.

MICROTOMUS Leconte

- M. SERICANS Lec. (12576). Said to occur on elm. Salisbury
Cove, June 15. Scarce.

SYMPHORA Leconte

- S. FLAVICOLLIS (Hald.) (12577). Taken on leaves and under
bark. Long Pond, July 16.

CANIFA Leconte

- C. PUSILLA (Hald.) (12586). Beaten from foliage of shrubs.
Echo Lake, June 27, Sept. 1. Scarce.
C. PALLIPES (Melsh) (12588). Station F389, In U.S.N.M.
Scarce. From mound ant nest, July 5 (Br.).

PTINIDAE. The Death-watch or Drug Store Beetles

These beetles bore into the wood of old buildings, where they make a ticking sound. They frequent stores and houses where dried food is kept and go through the whole menu, from breakfast foods and coffee to cigars, with great relish. They thrive on museum specimens and insect collections. In the open search for them under the bark of dead trees and in the dry trash of woodlands.

MEZIUM Curtis

M. AFFINE Boileau. Occurs in houses where it breeds in animal substances. Has been found in old insect boxes. This is the European species which is found throughout the northern part of the U. S.

PTINUS Linnaeus

- P. HIRTELLUS* Sturm. In a house in Bar Harbor.
P. FUR Linn. (12613). An Old World species very dangerous to museum specimens. In laboratory June and July.
P. RAPTOR Sturm. (21930). In laboratory October 16. Also in Can. Natl. Coll. labeled "Bar Harbor, '33."
P. VILLAGER Reit. One specimen Corfield Aug. 8, 1932.
P. sp. That looks like *raptor* taken with molasses bait, Corfield July 18.

ANOBIIDAE

Look for them in dead branches, dried fungi, etc., and sift for them.

ERNOBIUS Thomson

E. MOLLIS (Linn.) (12649). Occurs on pine. S. W. Harbor; N. E. Harbor; Green Mt., June 22–July 25. General distribution.

SITODREPA Thomson

S. PANICEA (Linn.) (12689). The Drug Store Beetle. In a house, Sept. 17.

MICROBREGMA Seidl

M. EMARGINATUM (Duft.) (12711). Corfield flying, June 3–9. Scarce.

COELOSTETHUS Leconte

C. NOTATUS (Say) (12712). Look for them on dead branches of oak. Corfield, July 23.

TRYPOPITYS Redtenbacher

T. SERICEUS (Say) (12717). Bar Harbor, July.

DORCATOMA Herbst

D. DRESDENSIS Hbst. (12839). From fungi, June.

PTILINUS Geoffroy

P. RUFICORNIS Say. (12864). Destroying woodwork in house, July 1-4 (Br.).

BOSTRICHIDAE. The Powder-post Beetles

The Powder-post Beetles all live in dry dead wood, either beneath the bark of trees, or in burrows; also old dry fungi. Wood showing the borings and brought to the laboratory to hatch out, will produce results.

STEPHANOPACHYS Waterhouse

S. SUBSTRIATUS (Payk.) (12908). On a spruce stump opposite Penikese. Like the others in the family they burrow in dry wood.

DINODERUS Stephenson

D. MINUTUS Fab. (12922). Bred from bamboo flower stakes, (Br.). Nov. 11.

LYCTIDAE

LYCTUS Fabricius

L. PLANICOLLIS Lec. (12940). Found in dead limbs. Bred from hickory handle, May 20 (Br.); June 9.

SPHINDIDAE. The Sphindus Beetles

SPHINDUS Chevrolat

S. AMERICANUS Lec. (12949). One specimen taken but too damaged to be sure of exact determination. Found in decaying wood and fungus.

CISIDAE. The Minute Tree-fungus Beetles

CIS Latreille

C. FUSCIPES Mellié (12972). Occurs beneath bark on logs and on fungi. Salisbury Cove, June 25. Not common.

XESTOCIS Casey

X. LEVETTI Casey (12997). It lives in the dry shining tree fungus (*Fomes lucidus*) on decaying hemlock logs. Bar Harbor; Jordan Pond, July and Aug.

OCTOTEMNUS Mellié

O. LAEVIS Casey (13037). Under bark on log Salisbury Cove, June 25. Scarce. Look for it under moss on logs.

SCARABAEIDAE. The Lamellicorn Beetles

This family which is probably the most aristocratic because its name is taken from the Latin *Scarabaeus* meaning "a beetle," may be roughly divided into two groups according to habits. However, as each genus generally has an adult food habit of its own, one cannot generalize and they will be treated separately.

ONTHOPHAGUS Latreille

O. HECATE Panz. (13080). Occurs beneath dead birds, snakes, etc. Taken in meat traps Bay Shore Drive, Sept. 11; North Shore Eagle Lake, Oct. 1; Salisbury Cove on star nosed mole, July 15.

O. NUCHICORNIS (Linn.) (13088). The only place taken was in cow dung at the Manset Ice Ponds. Station F316.

APHODIUS Illiger

Working over cow pastures will take these. The pastures should be gone over monthly for some of the species are seasonal.

- A. FOSSOR (Linn.) (13107). Bar Harbor, June 11; Eden flying, June 30.
- A. HAMATUS Say. (13109). Mt. Desert (S. Henshaw).
- A. ERRATICUS (Linn.) (13110). Town Hill late August to frost.
- A. HAEMORRHOIDALIS (13111). Same as above.
- A. FIMETARIUS (Linn.) (13119). Occurs generally on horse and cow dung. Common. An introduced species.
- A. GRANARIUS (Linn.) (13131). Occurs on fungi and dung. Bar Harbor (Moore). Scarce.
- A. RURICOLA Melsh. (13127). Town Hill late August to frost.
- A. SUBTERRANEUS (Linn.) (21175). Taken under horse dung, Witches Hole, June 2; in a Japanese beetle trap, baited with geranol, Penikese, June 12. A European species.

DIALYTES Harold

- D. STRIATULUS (Say) (13239). Same habits as *Aphodius*. Taken in meat trap in deep woods, Breakneck Drive, Aug. 31; Bar Harbor, July 14. Corfield on fungi.

GEOTRUPES Latreille

- G. BALYI Jek. (13290). These appear about Aug. 1 and are widely distributed wherever there are toadstools. They live in the underground portion of the stems and travel extensively about Sept. 1.
- G. EGERIEI Germ. (13294). Also frequents fungi. S. W. Harbor, Sept. 5 (Alexander). Scarce.
- G. SPLENDIDUS (Fab.) (13299). Frequents fungi and said to feed on carrion. N. E. Harbor, Aug. 23 (Minot); Sec. 19 flying, Sept. 13. Rare.

TROX Fabricius

- T. ERINACEUS Lec. (13336). Said to feed on owl pellets. Taken in trap made of leather, wool and bones bound together Penikese, May 30; Breakneck Drive in meat trap, Sept. 21. Taken at various places on North side of the Island with trap baited with feathers.
- T. MONTICOLA Robinson. Part of type lot taken on owl feathers July 4, '37 (Br.).
- T. UNISTRIATUS Beauv. (13338). On dried bones July and Aug. General distribution.

SERICA MacLeay

- S. ATRACAPILLA (Kby.) (13354). Mt. Desert (Br.) May 22.
- S. TRISTIS Lec. (13363). Taken at Penikese June 6 in Japanese beetle trap baited with geranol; Penikese beating, June 30, and hatched from a box full of wool, cloth, etc., placed at the edge of woods a year previously.
- S. LECONTEI Dawson (19959). Taken at Penikese May 30 from the stuffing of an old buggy seat partially buried the year before. Scarce.
- S. CUCULLATA Dawson (19966). Taken beating alder bushes Penikese, Sept. 4; Salisbury Cove, July 12 (Sanford).
- S. species near but not *tristis*.

DIPLTAXIS Kirby

- D. TRISTIS Kby. (13409). Found under bark, but feed at night. Penikese under board May 30; Witches Hole sugaring, Aug. 12; Penikese in geranol trap, Aug. 20. Not common.
- D. LIBERTA (Germ.) (13410). Bar Harbor (Moore), Iron-bound Isl. (Blaney).

PHYLLOPHAGA Harris (*Lachnosterna* Hope)

- P. FUSCA (Froelich) (13511). The common May beetle or "June bug." The larvae, commonly known as the white grub often do considerable damage to lawns. Heavily parasitized here by *Pelecinus polyturator* and the grubs are a favorite food of skunks. Appear last of May and disappear last of June.

- P. ANXIA Lec. (13516). Bar Harbor, June 11. Rare.
P. DRAKEI Kby. (13517). Feeding on white birch at night,
Aug. 21 (H. P. Boyd).

DICHELONYX Harris

- D. ELONGATA (Fab.) (13649). Taken on flowers, Penikese,
May 1; Bar Harbor, June 22; Echo Lake, July 17.
D. SUBVITTATA Lec. (13651). Common on flowers of the
Rosacea in June and July.
D. DILUTA Fall (13652). Eden, June 25, on wild roses.
Scarce.

POPILLIA Serville

- P. JAPONICA Newm. (13754). In 1941 four beetles were re-
ported in Bar Harbor. The Japanese Beetle.

LIGYRODES Casey

- L. RELICTUS (Say) (13834). They fly to light the first ten
days in Sept. The larvae live in well rotted earth around
barn yards.

EUPHORIA Burmeister

- E. INDA (Linn.) (13940). On the first warm days of Spring,
this beetle is seen flying close to the ground with a loud
buzzing noise. Larva live in rotten wood and adult found
sucking sap of deciduous trees. Generally distributed.

CREMASTOCHEILUS Knoch

- C. CASTANEAE Knoch (13974). The specific name indicates
that this beetle frequents the chestnut. Taken here in white
birch logs, Schooner Head, May 23; Corfield, June. Rare.

OSMODERMA Serville

- O. SCABRA (Beauv.) (14010). Lives in openings at the base
of trees and found wandering always singly from the
middle of July to end of Aug. One was reared Aug. 15 from
a grub found in decayed white birch log the previous Oct.
See C. H. Hoffman in Annals Ent. Society of Amer., Vol.
XXXII, No. 3.

TRICHIOTINUS Casey (*Trichius* auct.)

T. AFFINIS. (G. and P.) (14025). Taken on all kinds of flowers and particularly favors *Spirea*. Common from the last of June to Sept.

LUCANIDAE. The Stag Beetles

To be looked for under decaying logs and stumps. This family is not well represented here.

PLATYCERUS Geoffroy

P. QUERCUS Web. (14041). Occurs under logs and bark, especially of oak, as its name implies. Bar Harbor, May 12-28 (Br.).

P. DEPRESSUS Lec. (14045). Beehive Mt., Aug. 13 (Sanford).

CERUCHUS MacLeay

C. PICEUS (Web.) (14058). One taken dead by Brower under bark of red oak while on a bird census, Dec. 23, '37.

CERAMBYCIDAE. The Long-horned Wood-boring Beetles

Search freshly cut timber, cord wood, and lumber yards. Beating is productive as is caging likely looking pieces of dead branches, etc.

TRAGOSOMA Serville

T. DEPSARIUM var. HARRISI Lec. (14097a). S. W. Harbor, July, 1917 (Fernald); Bar Harbor, July 29; Ironbound Isl. (Blaney). The larva lives in spruce and pine. Rare.

ASEMUM Eschscholtz

A. MOESTUM Hald. (14107). The larvae infest pine and spruce. They will hide under chips put on freshly cut stumps. Otherwise they are hard to get. June 15-Aug. 15.

TETROPIUM Kirby

- T. CINNAMOPTERUM Kby. (14124). Bar Harbor, July 22 (Br.).
The larva feeds on conifers.

CRIOCEPHALUS Mulsant

- C. AGRESTIS (Kby.) (14132). Larvae live in the roots of pine and spruce. Bar Harbor, June 17 (Br.); Corfield at light, Aug. 13. A long distance flier. Scarce.

RHAGIUM Fabricius

- R. LINEATUM Oliv. (14298). Ribbed Pine Borer. The larvae are in pine and the adults may be taken from under the bark of recently cut logs and around sawmills. Bar Harbor, Apr. 25-May 11; Corfield, June 11. Rare.

PIDONIA Mulsant

- H. SPHAERICOLLIS (Say) (14310). Bar Harbor, N. E. Harbor, June 8-July 6.

CENTRODERA Leconte

- C. DECOLORATA (Harris) (14311). Occurs on beech and maple. Mt. Desert, July.

EVODINUS Leconte

- E. MONTICOLA (Rand.) (14349). Corfield; Norway Drive taken flying and beating, June 4-Aug. 4. The larvae are said to live in hemlock.

ACMAEOPS Leconte

- A. PROTEUS (Kby.). (14403). Corfield, June 2; Bar Harbor June 9-16; Eden on cord wood, June 24. Not common.

GAUROTUS Leconte

- G. CYANIPENNIS (Say) (14411). Taken by beating mixed foliage. Larva lives in oak, birch and said to be in wild cherry. Long Pond, June 10. Scarce.
G. ABDOMINALIS Bland (14414). Taken by beating and sweeping. June 10-July 12. Common.

ANTHOPHILAX Leconte

- A. ATTENUATUS (Hald.) (14415). Reared from green branches of *Picea glauca* (Br.), July 9.
- A. MALACHITICUS (Hald.) (14416). Taken flying in spruce woods Witches Hole, May 28; Bubble Brook in woods, June 21. Not common.
- A. VIRIDIS Lec. (14417). Frequents the spruce. Long Pond; Echo Lake, June 27–July 17.

JUDOLIA Mulsant

- J. SEXMACULATA (Linn.) (14424). Taken sweeping Bar Harbor, June 24 (Br.); Echo Lake, July 12–17.

ANOPLODERA Mulsant (*Brachyleptura* Casey)

- A. RUBRICA (Say) (14438). The larva lives in beech. Norway Drive on *Spirea*, July 3, '34 and July 8, '36. Scarce.
- A. VAGANS (Oliv.) (14441). The larva lives in yellow birch. Taken Bar Harbor; S. W. Harbor; Echo Lake; Witches Hole by sweeping roadside herbage, July 10–Aug. 15. A pair were taken on *Spirea* which are a marked color variety. Not common.
- A. CANADENSIS (Fab.) (14447). Larvae reported from spruce, hemlock and pine. Although they may be taken generally on *Solidago* and the like, I have never seen an adult except in Aug. Great variation in size.
- A. NITENS Forst. The mating flight of this beautiful beetle is generally the first ten days in July when they may be taken by beating. Corfield one or two yearly. July 3–10. It favors *Actinidia*.

PARALLELINA Casey

- P. SUBARGENTATA (Kby.) (14459). Eagle Lake and Bar Harbor, July 18.

CHARISALIA Casey

- C. CAPITATA (Newm.) (14464). July 3, '33. Record of place lost. Rare.

STRANGALEPTA Casey

- S. LINEOLA (Say) (14465). Upper Hadlock Pond; Bar Harbor, June 10–July 17. Mt. Desert (Br.), June 20.
S. PUBERA (Say) (14466). Bar Harbor, June 11. Rare.
S. VITTATA Oliv. (14469). This species has been reared from larch by M. W. Blackman. Common on flowers in July.

STRANGALIA Serville

- S. SUBHAMATA (Rand.) (14482). Taken at light Corfield, July 28; Green Mt., Mt. Desert (Br.), July 10. Although a species of northern range, it is rare here.
S. PLEBEJA (Rand.) (14487). Bar Harbor, July 19–28.

LEPTURA Linnaeus

- L. NIGRELLA Say (14516). Long Pond, June 27.
L. CHRYSOCOMA Kby. (14520). Echo Lake; Witches Hole; Norway Drive; Sec. 28 eating pollen of daisies and other flowers, June 16–July 12. Common.
L. PROXIMA Say (14525). Occurs on the foliage of maple and on flowers Bar Harbor, July 19–29.
L. BIFORIS Newm. (14530). Duck Brook; Green Mt.; N. E. Harbor, July 30–Aug. 19.
L. MUTABILIS Newm. (14532). The larva lives in beech. Bar Harbor; S. W. Harbor, June 8–July 25. Great variation in color and size.
L. PEDALIS Lec. (14534). S. W. Harbor; Great Pond, July 15–16; Jordan Pond, July 6.

BELLAMIRA Leconte

- B. SCALARIS (Say) (14537). The larva has been found in many varieties of coniferous and hardwood trees. Corfield flying, Aug. 6, '27. Rare.

TYPOCERUS Leconte

- T. VELUTINA (Oliv.) (14543). A common species on flowers from the middle of July until frost.
T. ACUTICAUDA Casey (14544). S. W. Harbor, July 20. Rare.

DESMOCERUS Serville

- D. PALLIATUS (Forst.) (14574). Elder-borer. The larvae live in the stems of elder (*Sambucus canadensis*), and the adults occur on the flowers and foliage from June 15–July 25. Common.

MOLORCHUS Fabricius

- M. BIMACULATUS Say (14584). Breeds in maple and ash. Bar Harbor and on wild cherry Great Heath, June 6 (Br.). Rare.

ROPALOPUS Mulsant

- R. SANGUINICOLLIS (Horn) (14612). Taken at S. W. Harbor, July 10, 1910 (Fernald). Penikese beating wild cherry, June 20, '37. Rare.

ANACOMIS Casey

- A. LIGNEA (Fab.) (14614). Bar Harbor, May 18 (Br.).

CALLIDIUM Fabricius

- C. VIOLACEUM (Linn.) (14622). Breeds in pine and the adults can usually be found where boards with some bark left on them are used in sheds and barns. Finely powdered wood shows where the larvae are working. The adults appear in June.

PHYMATODES Mulsant

- P. TESTACEUS var. VARIABILIS (Linn.) (14634a). Lab., June 8. Larvae are said to be in oak. Scarce.
- P. DIMIDIATUS (Kby.) (14640). Larva breeds in oak, larch, hemlock and spruce. On damp logs, July 1 (Br.); Echo Lake, July 17.

CYLLENE Newman

- C. ROBINIAE (Forst) (14671). Reared from locust, Aug. 20.

CALLOIDES Leconte

- C. NOBILIS (Harris) (14674). This beautiful beetle, as its name indicates, is scarce anywhere. But two specimens taken, June 23 and July 4 (E. B. Procter). It is to be looked for on freshly cut logs. Probably its northern limit.

XYLOTRECHUS Chevrolat

- X. COLONUS (Fab.) (14679). The Rustic Borer is found in nearly all of the hardwood trees and has been reported from hemlock. Bar Harbor, July 30-Aug. 2.
- X. UNDULATUS var. FUSCUS (Kby.) (14691c). Larvae have been found in hemlock, fir, spruce and larch. Adults mate latter part of June and may be taken on piles of cord wood and around clearings. June 24-July 20. Common.

NEOCLYTUS Thomson

- N. KIRBYI Auriv. (14708). On pine log Bar Harbor, July 22 (Br.).
- N. MURICATULUS (Kby.) (14713). Larvae reported from spruce, larch and pine. Breakneck Brook, June 16. Bar Harbor; S. W. Harbor; Long Pond, July 16-29.
- N. ACUMINATUS (Fab.) (14717). Larvae reported from a great variety of hardwoods but it is scarce here, only three individuals having been taken; Lake Wood, July 3; Corfield, July 28; Long Pond, June 27.

ANTHOBOSCUS Chevrolat

- A. RURICOLA (Oliv.) (14728). Frequents maple, oak, birch and beech. Corfield; S. W. Harbor; Chasm Brook; Penikese, June 25-Aug. 21.

CLYTUS Laicharteg

- C. MARGINICOLLIS Cast. (14734). Bar Harbor on rocket-plant, Aug. 5.

MICROCLYTUS Leconte

- M. GAZELLULA (Hald.) (14739). On flowers of rocket plant, July (Br.). In U.S.N.M.

CYRTOPHORUS Leconte

- C. VERRUCOSUS (Oliv.) (14741). Larva reported from a variety of hardwoods, cherry and apple preferred. The adults live in flowers. Mt. Desert, June 23, '27 (Salman). Emery District, June 11, '43 with tanglefoot.

PSENOTATUS Leconte

- P. SUPERNOTATUS (Say) (14894). The Currant Borer. Larva reported from elm, currant and Virginia creeper. Bar Harbor, June 22 (Br.); Lower Breakneck beating cherry, July 8.
- P. SUPERNOTATUS var. TRISTIS Csy. (14894a). Same as above. Bar Harbor on beech log on woodpile, Aug. 2 (Br.).

MONOCHAMUS Serville (*Monohammus* auct.)

- M. NOTATUS (Drury) (14901). Gray Pine Borer. Prefers pine, but infests spruce. The "sawyer" of the lumbermen. General but not common.
- M. SCUTELLATUS (Say) (14904). Black Pine Borer. Begins to appear after June 20 and is seen through August. The larva bores into spruce and pine and may easily be heard sawing. Common wherever there are spruce logs.

MICROGOES Casey

- M. OCULATUS (Lec.) (14923). Echo Lake, June 17.
- M. TENUICORNIS Csy. (14924). One specimen showing considerable variation taken on west side of the Island, July 1934. Rare.

LEPTOSTYLUS Leconte

- L. COLLARIS (Hald.) (14954). Bar Harbor, Aug. 2 (Br.).

ASTYLOPSIS Casey

A. MACULA (Say) (14960). Bar Harbor, Aug. 2 (Br.).

A. GUTTATA (Say) (14961). Mt. Desert, July 21.

Reared from larch July 20, '43.

LEIOPUS Serville

L. ALPHA (Say) (14985). Bar Harbor, Aug. 12 (Br.).

HYPERPLATYS Haldeman

H. MACULATA Hald. (15005). One specimen taken by beating shrubs. Record lost.

H. ASPERSA (Say) (15016). Larva reported in wild cherry, willow and currant. Beaten from *Myrica gale*, July 8 (Br.).

UROGRAPHUS Horn

U. TRIANGULIFERA (Hald.) (15023). One specimen taken Corfield, Sept. 15, '32.

GRAPHISURUS Kirby

G. PUSILLUS Kby. (15026). On log Eden, June 23. Scarce.

G. sp. Bar Harbor under bark. Date lost.

POGONOCHERUS Latreille

P. PENICELLATUS Lec. (15049). Larva reported in spruce. Bred from pine or fir (Br.); Northeast Branch, Aug. 3.

P. MIXTUS Hald. (15056). On *Pinus strobus*, Aug. 1.

SAPERDA Fabricius

S. OBLIQUA Say (15109). The Alder Borer. In spite of the large growth of alder on the Island, this insect is scarce. Tremont, Aug. 23. Penikese at light, Sept. 10.

S. CANDIDA Fab. (15112). The Round Headed Apple Borer. Bores in apple and most pomaceous trees and shrubs. Taken in old orchards and at light. July 25-Aug. 21. Fairly common. More females than males seen.

- S. CALCARATA Say (15113). The Poplar Borer. Blackened scars on the limbs and trunk show where this insect has been working. Penikese at light, Aug. 11. Bar Harbor, Aug. 20. Not common.
- S. DISCOIDEA Feb. (15116). The Hickory Borer. Bred from Hawthorn, July 12, '35 (Br.).
- S. CONCOLOR var. UNICOLOR Felt & Jout. (15123a). This insect also infests poplar. Reared from stem gall on *Populus tremuloides*, June 10.

OBEREA Mulsant

- O. PALLIDA Casey (15137). Near Bar Harbor (R. H. Burton); Salisbury Cove, Aug. 11.
- O. MYOPS Hald. (15138.1). On raspberry, June 1 (Br.).
- O. BIMACULATA (Oliv.) var. AFFINIS Harris (15148). Breeds in the canes of raspberry and blackberry. Taken by sweeping at Eden Fair Grounds, July 26; Bar Harbor, July 2.
- O. OCELLATA Hald. (15152). One found in poplar (Br.) May 12.
- O. GRACILIS (Fab.) (15154). Bar Harbor, July 23 (Br.).

CHRYSOMELIDAE. The Leaf Beetles

General beating and sweeping will yield large numbers but as their interest is so tied to their food plants, it is better and more fun to search for them there.

DONACIA Fabricius

The Donacia breed in ponds and so are taken on lily pads and the like. Also sweeping along brooks or edges of ponds is productive. Look also on early flowers such as wild mustard if within 100 yds. of water. A species here is confined to one or two ponds, probably due to the intervening mountains and dense woods.

- D. *HIRTICOLLIS* Kby. (15194). Eden Aug. 10. Scarce.
- D. *PROXIMA* Kby. (15198). Little Round Pond, June 18; Tarn, July 28; Witches Hole, June 7–Sept. 11. Not common.
- D. *CINCTICORNIS* Newn. (15198a). Upper Breakneck Pond on (*Nymphaea advena*), July 28–Aug. 3. Scarce.
- D. *PALMATA* Oliv. (15199). The Tarn one specimen, July 28; Witches Hole, Aug. 6; much variation in color.
- D. *RUFESCENS* Lac. (15201). New Mill Pond, July 25. Upper Breakneck Pond, July 29. Shows great variation in size and in color. Not common.
- D. *PISCATRIX* Lac. (15202). Witches Hole, July 15; The Tarn, July 28. Shows considerable color variation.
- D. *SUBTILIS* var. *FULGENS* Lec. (15203). If this variety is valid, there is a record of Bar Harbor, July 24.
- D. *SUBTILIS* Kunze. (15203). A single specimen taken at Beaver Dam Pond flying, Sept. 24, '37; Bar Harbor, July 20–29.
- D. *RUGOSA* Lec. (15206). The Tarn mating in large numbers on *Pontederia cordata*, July 28, '37. This is the only record on the Island. No variation shown.
- D. *DISTINCTA* Lec. (15211). Bar Harbor, June 11.
- D. *PUSILLA* Say (15213). Witches Hole, June 13.
- D. *METALLICA* Ahrens (15215). Bar Harbor, June 11.
- D. *EMARGINATA* Kby. (15216). Penikese on wild mustard, June 4; Upper Hadlock Pond, June 10; Station F244, June 18. F382.
- D. *FLAVIPES* Kirby (15217). But one specimen taken. Station F332.
- D. *RUFA* Say (15218). Rhodora Meadow flying, May 25; Witches Hole, June 13; Half Moon Pond sweeping the shore bushes, June 18.
- D. *LIEBECKI* Schffr. (20163). Witches Hole mating, July 28 and Upper Breakneck Pond, Aug. 3. In white water lily flowers both places. Show no variation. Scarce.

ORSODACHNE Latreille

- O. ATRA (Ahrens) (15219). With one exception this and the next four are common on "pussy willows" and extend on into June. They grade into one another to a marked degree. The exception is *A. hepatica* which is not common and easily distinguished. Station F301; Mt. Desert, June 16.
- O. ATRA var. HEPATICA Say (15219b). Witches Hole flying, June 2.
- O. ATRA var. CHILDRENI Kby. (15219c). Station F240, May 11.
- O. ATRA var. TIBIALIS Kby. (15129d). Bar Harbor from catkins (Br.), May 11.
- O. ATRA var. TRIVITTATA Lac. (15219e). Stations F237, F242, F300 and F301.

SYNETA Lacordaire

- S. FERRUGINEA (Germ.) (15223). A normal male and a peculiar reddish female taken by sweeping ferns, etc., along Hunters Beach Brook, June 19. Duck Brook, June 13. Feeds on birch leaves.

ZEUGOPHORA Kunze

- Z. VARIANS Cr. (15233). One specimen taken at Station F395.

LEMA Fabricius

- L. BRUNNICOLLIS Lac. (15239). A tamarack swamp is the habitat of these. Eden, July 15.

CHLAMISUS Rafinesque

This is *Chlamys* Knoch, not Röding. *Arthrochlamys* Ihling, *Bolochesis* Jacobson.

- C. GIBBOSA (Fab.) ? (15297). Salisbury Cove, July 15, larva.
- C. CRIBRIPENNIS Lec. (15299). Sweeping along roadsides will take these in Aug. and Sept. Common.

ATROCHLAMYS

- A. CHARAEDAPNES Brown (15299-5). Swept from *Chamaedaphne*, Oct. 5.

EXEMA Lacordaire

For an interesting paper on the Canadian species see Can. Ent. Vol. LXXV, No. 7, W. J. Brown.

E. CONSPERSA (Mann.) (15306). The host plant is needed for this genus and the U.S.N.M. would be glad to get any accurate records. Taken by sweeping bushes July 15.

E. DISPAR CANADENSIS Pierce. Feeds on *Solidago* and strays to birch and other vegetation when nearly mature. Found on Compositae July 15 to frost.

E. PENNSYLVANICA Pierce. Bull. So. Calif. Acad. Sci. 39 bt. 1 p. 18. Taken by sweeping bushes Indian Point road, July.

PACHYBRACHYS Redtenbacher

P. PECCANS Suffr. (15393). Beaten from spruce, Eden-Town Hill Road.

P. ATOMARIUS (Melsh.) (15407). S. W. Harbor, Sept. 3 (Alexander).

P. RELICTUS Fall. (15415). Robinson Mt. at Station F179, Aug. 24.

P. OBSOLETUS Suffr. (15433). Bar Harbor (Br.), July 6.

P. OTHONUS (Say) (15451). Eden, July 15, 1925. Scarce.

P. AUTOLYCUS var. DIFFICILIS Fall (15453a). New Mill Meadow sweeping, July 22.

P. AUTOLYCUS Fall. A variety that is marked almost exactly as a Colo. var. called *wahsachensis* by Fall.

P. HEPATICUS (Melsh.) (15470). S. W. Harbor, July 20.

MONACHULUS Leng

M. ATER? (Hald.) (15472). Record of capture lost.

CRYPTOCEPHALUS Geoffroy

C. NOTATUS Fab. (15479). Penikese, June 24. Neither these nor others in the genus are numerous.

- C. NOTATUS* var. *QUADRIMACULATUS* Say (15479a). A general feeder and is picked up in beating and sweeping mixed vegetation in July and Aug. Robinson Mt.: Sec. 15; Stations F51, F63, F104, F143 and F212.
- C. GIBBICOLLIS* Hald. (15501). Mt. Desert, June 28.
- C. INCERTUS* Oliv. (15505). Breakneck Pond, Sept. 8. Feeds on the leaves of cranberry, hazel, etc.

DIACHUS Leconte

- D. AURATUS* (Fab.) (15521). Taken by sweeping and beating. Green Mt. summit, July 26; Sargent Mt. summit, Aug. 21; Echo Lake; S. W. Harbor; Bar Harbor, July 12-10.
- D. CATARIUS* (Suffr.) (15527). Toad Hole, Aug. 14.

BASSAREUS Haldeman

- B. FORMOSUS* (Melsh.) (15532). Frequents the foliage of elder and grape, but may be taken by general sweeping. Green Mt., July 20; Sec. 32, Aug. 9; Station F208; Sargent Mt., Aug. 21.
- B. FORMOSUS* var. *SULPHURIPENNIS* (Melsh.) (15532a). Mt. Desert, July 4 (Br.).

TRIACHUS Leconte

- T. ATOMUS* (Suffr.) (15537). Sweeping bayberry and blueberry bushes is the way to take these. Long Pond, July 16; Bar Harbor (Br.), June 20.
- T. CERINUS* Lec. (15538). Bar Harbor (Moore).
- T. VACUUS* Lec. (15539). Truck garden in Eden, Aug. 27.

GRAPHOPS Leconte

- G. MARCASSITUS* Cr. (15569). Station F418.

XANTHONIA Baly

- X. DECEMNOTATA* (Say) (15573). Foliage of beech, elm, and oak. Bar Harbor (Br.), Sept. 12.
- X. 10-NOTATA* var. *IMMACULATA*. Penikese beaten from oak, Sept. 10.

ADOXUS Kirby

- A. OBSCURUS (Linn.) (15604). Long Pond; S. W. Harbor: Stations F73; F173; F212, July and Aug. I am treating the melanic phase and the ones with the brown elytra as a single species.
- A. VILLOSULUS Schrank (15604b). Stations F173, Aug. 2 and F212, July 31.

PARIA Leconte

- P. CANELLA (Fab.) (15626). Newport Meadow sweeping goldenrod, etc., Sept. 22.
- P. CANELLA var. GILVIPES Horn. (15626b). Section 32 on sweet fern, Sept. 15.
- P. CANELLA var. QUADRIGUTTATA Lec. (15626d). Willow catkins, May 11; Long Pond, June 6. Newport Meadow sweeping goldenrod, etc., Sept. 22.

PRASOCURIS Latreille

- P. VITTATA (Oliv.) (15636). Seed pods of rushes Station F408.

LEPTINOTARSA Stål

- L. DECEMLINEATA (Say) (15648). The Potato Beetle is general on the Island but not in large numbers.

CALLIGRAPHA Erichson

- C. LUNATA (Fab.) (15664). The name taken from the Greek meaning "beautiful writing" is descriptive of this genus. Eden Fair Grounds on wild roses, July 26; Bar Harbor on rose (Br.), Aug. 17.
- C. SIMILIS Rogers (15665). Found in dry localities. Hibernates in rubbish. Newport Meadow sweeping wild rose, Oct. 5. Rare.
- C. ELEGANS (Oliv.) (15669). Prefers moisture. Look for it around *Solidago*. On *bidens* (Br.), Aug. 15; Station F137.
- C. SCALARIS Lec. (15671). Found on the foliage of elm, linden, etc. Stations F237 and E199. On *Salix humilis* in Sept.

- C. ROWENA Knab. (15673). Bar Harbor, June 12. Rare.
 C. PHILADELPHICA (Linn.) (15674). Common. It feeds on (*Spireae*) and alder. Stations F122 and F199.
 C. PHILADELPHICA var. SPIREAE (Say) (15674a). As the name indicates, it prefers (*Spireae*). Mt. Desert, July (McAtee).
 C. BIGSBYANA (Kby.) (15677). Eden, July 16; Corfield, Aug.; Station F242; Eden on alder Sept. 17; Also feeds on willow.
 C. ALNI Schaeffer (21358). Mt. Desert, May 2; Penikese on alder, Sept. 20.

PLAGIODERA Redtenbacher

- P. VERSICOLORA (Laich.) (15693). Reared from larch trunks Oct.

GASTROPHYSA Chrevolat

- G. POLYGONI (Linn.) (15701). Sweeping grass and *Polygonum*. The latter is its food plant. Bar Harbor, June 17.

CHRYSOMELA Linnaeus

- C. INTERRUPTA Fab. (15708). Bar Harbor, June; Mt. Desert (Br.), June 15. The variety with all legs red was also taken.
 C. TREMULAE Fab. (15709). An introduced European species. Bar Harbor, July 10.

PHYLLODECTA Kirby

- L. VULGATISSIMA (Linn.) (15717). Eagle Lake; Seal Harbor (Stowell), July 18-Aug. 15. It feeds on willow and poplar.
 P. AMERICANA Schaeffer. (21365). (*vulgatissima* Auct. non Linn?). One specimen taken Station F278.

TRIRHABDA Lecoute

- T. VIRGATA Lec. (15726). Very common especially in Sept. and can be swept any place. Feeds on goldenrod.

GALERUCELLA Crotch

- G. CONFERTA (Lec.) (15744). All of this genus has its particular plant on which it is found. Sweeping individual plants should be followed and a careful record kept. Station F288; F343.

- G. CAVICOLLIS (Lec.) (15746). Feeds on the leaves of wild cherry. Penikese, June–July beating.
- G. NYMPHAEAE (Linn.) (15751). On the leaves of *Nymphaeae advena* in the ponds, July and Aug.
- G. DECORA (Say) (15753). Found on willow generally. Penikese sweeping, June 1; S. W. Harbor; Bar Harbor, June 27–Aug. 18; Station F94.
- G. KALMIAE Fall (20194). Prefers the leaves of laurel. Penikese, May 29 on wild mustard. Green Mt. summit laurel, Aug. 8; Long Pond; Bar Harbor, July 17–Aug. 18.
- G. VACCINII Fall (20195). N. E. end of Long Pond, sweeping ferns.
- G. SPIRAEAE Fall (20196). Feeds upon *Spiraea*. Station F177. Abundant in Rhodora Meadow, May 24, '38.
- G. ALNI Fall (20197). Feeds on the leaves of alder. S. W. Harbor; Eden, June 27–July 16; Green Mt. Summit, Aug. 5.
- G. PERPLEXA Fall (20198). Penikese, June 20; Green Mt. Summit, Aug. 5; Swamp opposite Schooner Head, Sept. 22.
- G. sp. Station F308.
- G. sp. Station F308.
- G. sp. Station F308. This and the two above are all different.

ERYNEPHALA Blake

- E. MARITIMA (Lec.) (*Monoxia puncticollis* Horn) part; not (Say) (15755). Salt marsh at Narrows on *Solidago maritima* Aug. 3–Sept. 12.

DIABROTICA Chevrolat

- D. DUODECIMPUNCTATA (Fab.) (15769). Adults found on the foliage of cucumber and allied plants while the larvae feed on the roots of grasses and corn. S. W. Harbor on rose, July 13; Sargent Mt. Pond 1000 ft., Sept. 3; Section 15, Sept. 6.
- D. VITTATA (Fab.) (15782). The Striped Cucumber Beetle which as its name implies lives on cucumbers, melons, etc.
- D. MELANOCEPHALA (VITTATA auct. not Fab. 1775). Penikese on lilac, June 6; Stations F39 and F128.

PHYLLOBROTICA Redtenbacher

P. DECORATA (Say) (15788). Sweeping Station F73. Scarce.

LUPERODES Motschulsky

L. MERACA (Say) (15823). Long Pond; Eagle Lake; Bar Harbor, June 27-July 22. It feeds on the wild rose.

OEDIONYCHIS Latreille

O. VIANI SCRIPTICOLLIS (Say) (15868a). Bar Harbor, May 18 (Br.).

O. LIMBALIS Melsh. (15886). Beating oak foliage.

O. SUBVITTATA Horn (21374). A common form from the latter part of June to the middle of Sept. Taken by beating and sweeping.

O. SUBVITTATA var. VERA. Penikese sweeping, June 1. See Blake's paper.

DISONYCHA Chevrolat

D. PENNSYLVANICA (Illig.) (15895). Found in moist meadows. Bar Harbor (Br.), May 12.

D. QUINQUEVITTATA (Say) (15896). To be looked for on willow and poplar. Bar Harbor, Sept. 13; Penikese sweeping, Oct. 1.

D. COLLATA (Fab.) (15911). Sweeping in low places. Pretty Marsh Landing, Aug. 21.

D. LATIFRONS Schiff. (20204). This conspicuous beetle was not taken until 1937 and then numbers were swept at Pretty Marsh, Sept. 6, Station F289 and some scattering.

ALTICA (*Haltica*) Geoffroy

A. BIMARGINATA Say (15916). Station F158 on poplar trees, Sept. 23.

A. AMBIENS ALNI Harris. (A *bimarginata* Woods not Say.). Alder Flea-beetle. Collected from an isolated alder bush which they were defoliating. The large blue flea-beetles have been confused in the past. See Blake in Proc. Ent. Soc. Wash., vol. 38, no. 2.

- A. IGNITA Ill. (15920). Bar Harbor, June 13; Station F239 at Sunken Heath. Swamp Norway Drive, Oct. 3.
- A. ROSAE Woods (15921). Feeds on wild rose. S. W. Harbor, July 11.
- A. SYLVIA Mall. (*torquata* Woods nec. Lec.). (20222). Green Mt. Summit sweeping bushes, July 26; swept from blueberry (Br.), Sept. 26.

CHALCOIDES Foudras

- C. HELXINES (Linn.) (15968). Feeds on poplar and willow and is generally distributed. May is the optimum month.
- C. HELXINES var. NANA (Say) (15968). Toad Hole Brook, F390, Aug. 26.

I have used this name because no other would be understood and because others use it in this country. Living in Sweden Linnaeus gave the specific name *helxines* to a metallic green flea-beetle with testaceous legs and antennae, living on buckwheat. Usage has since attached this name to various species but in the European catalogues they no longer cite Linnaeus, but use the name as a suppressed synonym under various species and ascribed to diverse subsequent authors. The paradox is that the European coleopterists do not use the Linnaean name but that we apply it to a complex of species which we do not distinguish and no one of which can be the species to which Linnaeus gave the name.

- C. sp. Along Middle Road beating catkins, May 23.

CREPIDODERA Chevrolat

- C. ATRIVENTRIS Melsh (15974). Section 11, Station F374.

EPITRIX Foudras

- E. CUCUMERIS Harr. (15982). The Cucumber Flea-beetle has the preference that its name indicates but is also found on other field and garden crops in Aug.

CHAEOTCNEMA Stephens

- C. MINUTA Melsh. (16006). Prefers the foliage of marshes and brook banks. Mt. Desert (Br.), Aug. 15.

SYSTEMA Clark

- S. PALLICORNIS Schffr. (16023). Common on various plants especially *Polygonum*. Stations F61 and F63; Great Heath; Green Mt., Aug.
S. FRONTALIS (Fab.) (20225). Great Heath, Aug. 28.

LONGITARSUS Latreille

- L. ERRO? Horn. (16045). Bar Harbor (Br.), Sept. 12. Scarce.
L. MELANURUS Melsh. (16049). Beating and sweeping roadsides. Section 26, Aug., Station F62, Sept.
L. INSOLENS Horn. (16051). Tremont, Sept 4. Scarce.

PHYLLOTRETA Foudras

- P. SINUATA (Steph.) (16065). Bar Harbor, July 24.
P. ROBUSTA Lec. (16068). Bar Harbor, July 24.
P. sp. probably VITTATA Fab. (16066). Sweeping beside road at Nurseries, July.

DIBOLIA Latreille

- D. BOREALIS Chev. (16086). Occurs on plantain (*Plantago*). In the leaves of which the larvae live. Taken on poplar catkins (Br.), Apr. 26. Bred from *Plantago* and *Impatiens fulva*, July 28, (Br.).

PSYLLIODES Latreille

- P. PUNCTULATA Melsh. (16089). Feeds on the leaves of dock and rhubarb and is common.

ANOPLITIS Chapuis

- A. INAEQUALIS (Web.) (16105). Common and generally distributed, July 12–Sept. 20. Taken by sweeping.

CHALEPUS Thunberg (*Odontota* auct.)

- C. DORSALIS Thunb. (16113). Hibernates beneath locust bark (Robinia) in the leaves of which the larvae mine. Beaten from clover, etc. Bar Harbor.

MICRORHOPALA Baly

- M. XERENE (Newh.) (16130). Sweeping in marshy places. The larvae are said to mine the leaves of goldenrod (*Solidago*) but I have not seen it here. Stations F200, F261, and F262 and elsewhere, June 24–Sept. 20.
- M. EXCAVATA (Oliv.) (16133). Common, July 11–Sept. 6.

CHELYMORPHA Boheman

- C. CASSIDEA (Fab.) (16139). This beautiful species, “turtle-shaped” as its name describes it, feeds on the morning glory, (*Convolvulus sepium* var. *americanus*) and is also found on milkweed in other places. The beetles were all reddish brown in July and light yellow in Aug.

CASSIDA Linnaeus

- C. RUBIGINOSA Müll. (16145). One taken by sweeping. Gt. Heath, June 20, '37.

DELOYALA Chevrolat (*Coptocycla* auct.)

- C. GUTTATA (Oliv.) (16152). It also feeds on morning glory and I have swept it from grape. Some specimens were reddish brown in color, resembling *Metronia purpurata* Say. Mating at Station F169, June 25.

BRUCHIDAE (*Mylabridae*). The Pea and Bean Weevils

Look for them on legumes and on *Convolvulus*.

PACHYMERUS Thunberg

- P. GLEDITSIAE (Linn.) (16163). A southern form with the first record for Maine. In cow pasture Town Hill, Sept. 9.

MYLABRIS Müller

M. sp. On laboratory window, June 15.

PLATYSTOMIDAE (*Anthribidae*)

EUSPHYRUS Leconte

E. WALSHI Lec. (16275). Bar Harbor, on a clothes line, Aug. 8 (Br.).

GONOTROPIS Leconte

G. GIBBOSUS Lec. (16278). One specimen taken July, 1937. Very rare.

EURYMYCTER Leconte

E. FASCIATUS (Oliv.) (16279). S. W. Harbor, June 21.

ALLANDRUS Leconte

A. BREVICORNIS Frost (20248). S. W. Harbor, July 19.

EUPARIUS Schönherr

E. (CRATOPARIS) MARMOREUS (Oliv.) (16299). On laboratory window, May 30, '35. Rare.

BRACHYTARSOIDES Pierce

B. STICTICUS (Boh.) (16304). Sweeping rank herbage. Station F414. Great Heath on willow, Oct.

BELIDAE

ITHYCERUS Schönherr

I. NOVEBORACENSIS (Forst.) (16324). The only species of this family reported in Leng. Duck Brook bridge on oak, June 16; Mt. Desert (Br.), June 10. Rare.

CURCULIONIDAE. Weevils or Snout-beetles

RHINOMACER Fabricius

R. ELONGATUS Lec. (16326). Station F420.

AULETES Schönherr

- A. ALBOVESTITA Blatchley (16338). Green Mt.; Salisbury Cove; Bar Harbor, July 6–Aug. 17, sweeping low bushes; Sec. 32 on sweet fern, Sept. 15. Common.

AULETOBIUS Desbr.

- A. ALBOPILUS (Blatch.). Great Heath, on willow, Oct. 5 (Br.).

RHYNCHITES Herbst

- R. BICOLOR Fab. (16348). The Rose Curculio is found on roses, blackberries and raspberries, occasionally doing damage. Scarce. Eating wild rose blossoms Town Hill, July 28.
- R. CYANELLUS Lec. (16359). Occurs on the leaves of the willows. Great Pond, July 16, sweeping.
- R. PERPLEXUS Blatch.? (16362). Sweeping fern and *Spiraea*; Sec. 20, July 23.

ATTELLABUS Linnaeus. Leaf-rolling weevils

- A. BIPUSTULATUS Fab. (16367). This species rolls the leaves of oak. Bar Harbor beating June 16. Rare. Robinson Mt. Ang. on leaves of *Quercus ilicifolia*.
- A. RHODS Boh. (16369). Occurs on hazelnut and alder. As described by Packard, the singular, thimble-like rolls of this weevil may be found in June and July on the alder. When about to lay her eggs, the female begins to eat a slit near the base of the leaf on each side of the midrib, and at right angles to it, so that the leaf may be folded together. Before beginning to roll up the leaf she gnaws the stem nearly off, so that after the roll is made, and has dried for perhaps a day, it is easily detached by the wind and falls to the ground. When folding the leaf, she tightly rolls it up, neatly tucking in the ends, until a compact cylindrical solid mass of vegetation is formed. Before the leaf is entirely rolled she deposits a single egg, rarely two, in the middle next to the midrib, where it lies loosely in a little

cavity. These rolls remain on the bushes sometimes for several days, but probably drop by the time the larva escapes from the egg, and it seems probable that the grub uses the roll for a shelter until it matures and is ready to enter on its transformation to a beetle. Common on alder.

APION Herbst

- A. FINITIMUM Fall (16380). Seal Cove Brook sweeping wild carrot and ferns, Aug. 7, '35; Station F214.
A. PENNSYLVANICUM Boh. (16392). Narrows, Aug. 3, sweeping.
A. WALSHI Sm. (16423). Recorded as occurring on white birch and in the galls of a willow. S. W. Harbor; Bar Harbor; Long Pond, July 15–Sept. 7.
A. PORCATUM Boh. (16439). Penikese, beaten from locust, July 31.

PHYXELIS Schönherr

- P. RIGIDUS (Say) (16499). Penikese, sweeping daisies and buttercups just in bloom, F377, June 12.

SCYTHROPUS Schönherr

- S. ELEGANS (Coup.) (16626). Section 40 with tangle-foot, June 5.

HORMORUS Horn

- H. UNDULATUS (Uhler) (16635). General sweeping best way with these. Seal Harbor (Stowell), Aug. 9. Not common.

SCIAPHILUS Schönherr

- S. MURICATUS (Fab.) (16640). Lake Wood sweeping blueberry and low bushes, June 11; Penikese beating high bushes, June 15; Paradise Hill beating bushes, Sept. 27. An introduced species. Common.

STROPHOSOMA Billberg

- S. CORYLI (Fab.) (16641). Bar Harbor, May 27 (Br.). Station F398.
- S. MELANOGRAMMUM Forst. Great Heath beating and Bar Harbor on currants, Aug.

BARYNOTUS Germar

- B. SCHÖENHERRI Zeit. (16671). S. W. Harbor, June 24; Seal Harbor, Aug. 9 (Stowell).

BARYPEITHES Jacquelin-Duval

- B. PELLUCIDUS (Boh.) (16672). A European species. Bar Harbor, (Moore); Eden, June 25.

BRACHYRHINUS Latreille (*Otiorhynchus* Germar)

- B. (OTIORHYNCHUS) SULCATUS Fab. (16677). Known as the "Black Vine-weevil" and injurious to various plants. Under old wool in woods, May 30; swept from various plants to Sept. 22. Common.
- B. OVATUS (Linn.) (16678). Known as the Strawberry Crown-girdler. Taken under boards, May 30; Little Round Pond on daisies, June 18; under bark of yellow birch, Sept. 9; swept from *Solidago* Witches Hole, Sept. 3. Common.
- B. SINGULARIS Linn. (16680). Sweeping pine, Aug. 3.

PHYLLOBIUS Germar

- P. PYRI Linn. A few swept Station F195; one beaten from cedar Sec. 26, June 24; one from zinnia Corfield, Aug. 24. Dr. J. C. Bradley says that these are the European form.
- P. sp. Station F319. L. L. Buchanan says that this individual resembles the Japanese form.

SITONA Germar

- S. FLAVESCENS Marsh. (16727). Taken by sweeping along the borders of marshes. Salisbury Cove, July 15. Edge of Gt. Heath on Middle Road, Aug. 24. Scarce.

S. HISPIDULUS (Fab.) (16728). Known as the Clover Leaf Curculio. The larva feeds on the roots of clover and other legumes. A real pest in places. Bar Harbor; Shea's Corner, Sept. 7.

S. SCISSIFRONS Say (16737a). Nurseries, sweeping grass, May 25.

S. TIBIALIS Hbst. (16738). Bar Harbor; Eden, June 13–July 15.

HYPERA Germar

H. PUNCTATA (Fab.) (16754). The Clover Leaf Beetle for both the larvae and adults feed on this plant. Swept from aster and *Solidago* on cut-over land, Sept. 18.

H. MELES Fab. Newport Meadow F334. N. E. Branch sweeping clover, July 15.

PHYTONOMUS Schönherr

P. NIGRIROSTRIS (Fab.) (16765). In laboratory, July 22.

LEPYRUS Germar

L. PALUSTRIS Scop. (16767). Feeds on willow and poplar. A large number feeding on willow stems S. de Monts Spring (Br.), Aug. 19, '37. The only time taken.

LISTRONOTUS Jekel

L. LATIUSCULUS (Boh.) (16790). Breeds in arrowhead (*Sagittaria*) also parsley. One specimen taken Station F269. Probably is *latiusculus* though not ornamented.

L. sp. Record of capture lost.

HYPERODES Jekel (*Macrops* Kirby)

H. INDISTINCTUS (Dietz) (16803). Pretty Marsh, June 20.

H. SPARSUS (Say) (16821). Sifted from trash early spring. Newport Cove sweeping, July 11.

H. OBSCURELLUS (Dietz) (16824). Record of capture lost.

PISSODES Germar

- P. SIMILIS Hopk. (16840). Reared ex balsam fir (Br.), July 6.
- P. STROBI (Peck) (16845). The White Pine Weevil. The larva kills the leading shoot of white and other pines and sometimes spruce, causing the tree to be more or less deformed. Bar Harbor, Aug.
- P. APPROXIMATUS Hopk. (16846). Mt. Desert, July 3–Aug. 10 (Br.).
- P. FISKEI Hopk. (16857). Taken on spruce logs. Rare. Previously recorded from N. H. only. One specimen in U.S.N.M.
- P. NIGRAE Hopk. (16858). Bar Harbor, May 31 (Br.).
- P. DUBIUS Rand. (16866). Mt. Desert, June 5. Reared from fir, infested with borers, Sept. 3 (Br.).
- P. sp. near DUBIUS (16866). Bred ex balsam fir, July 16–26 (Br.).
- P. AFFINIS Rand. (16868). Similar to the above species, but larger. Salisbury Cove; Bar Harbor, etc., June 9–July 29.

HYLOBIUS Germar

- H. PALES Boh. (16873). Eden, Aug. 12 (Br.).
- H. CONGENER Sch. & Marsh (16874). Taken on blackberry blossoms, June 17; Corfield at light, June 13. General but sparse distribution. Is said to breed in pine.

HYPOMOLYX Leconte

- H. PICEUS (DeG.) (*H. pineti* Fab.) (16879). Reported from Mt. Desert Island, Aug. Ironbound Isl. (Blaney). A northern form and a frequenter of dark woods where it is generally found wandering alone.

DORYTOMUS Germar

- D. VAGENOTATUS Csy. (16910). Taken on willow catkins, May 4–11 (Br.).
- D. BREVICOLLIS Lec. (16914). Bar Harbor, Apr. 21–May 2 (Br.).

ONYCHYLIS Leconte

O. NIGRIBOSTEIS (Boh.) (17022). Taken on willow catkins, Apr. 21. Scarce.

O. LONGULUS Lec. (17023). Found on pickerel weed (*Pontederia*), *Sagittaria* and other pond plants. Scarce.

PROCTORUS Leconte

P. ARMATUS (Lec.) (17056). Willow Catkins (Br.), May 11. Rare.

P. DECIPIENS Lec. (17057). Station F308.

TYCHUS Germar

T. PICIROSTRIS (Fab.) (17074). Taken on pear and other trees. Bar Harbor; S. W. Harbor; Great Pond in June and July.

MAGDALIS Germar

M. HISPIDES Lec. (17132). Taken on pine S. W. Harbor, July 11.

M. ALUTACEA Lec. (17141). Beating oak, Penikese, June 6.

M. PICEAE Buch. On evergreens, Sept. 12.

M. sp. Between *gentilis* and *piceae*. Bar Harbor, June 4 (Br.).

BALANINUS Germar

B. RECTUS Say (17157). One specimen taken flying, Corfield, Sept. 24, '37.

B. NASICUS Say (17159). Taken the latter part of the summer to the middle of Sept. on various species of oak and traveling. Infesting the acorns of red oak Eden, July 18; Robinson Mt. in Sept.

TACHYPTERELLUS Fall and Cockerell

T. QUADRIGIBBUS (Say) (17186). The Apple Curculio. Infests the fruit of both the apple and the thorn. Bar Harbor, June 17. Richardson Brook beating, July 2.

ANTHONOMUS Germar

- A. PULSILLUS Lec. (17194). Richardson Brook, Station F374.
- A. PROFUNDUS Lec. (17202). Frequents the huckleberry, Eagle Lake, July 18.
- A. SYCOPHANTA Walsh (17212). Mt. Desert, May 26, and bred from gall on willow, Aug. 2 (Br.). Scarce.
- A. CORVULUS Lec. (17217). Sweeping, June 23.
- A. SIGNATUS Say (17219). The Strawberry Weevil is a feeder on strawberry, blackberry and raspberry on which the female deposits her eggs in the buds, then puncturing or cutting the stem below the bud so that it falls off in a few days. Echo Lake; Salisbury Cove, June 27-July 15.
- A. SCUTELLATUS Gyll. (17245). Known as the Plum Gouger. Swept from *Spiraea* and fern Sec. 20, July 23; Sec. 32, Aug. 9. Swept from *Solidago* Sec. 15, Sept. 8.
- A. MOLOCHINUS Dietz (17257). Bar Harbor, Sept. 19 (Br.).
- A. SUBFASCIATUS Lec. (17267). Bar Harbor; S. W. Harbor, Aug. 10-30.
- A. NUBILOIDES Fall (21518). Duck Brook to Witches Hole, F330.
- A. sp. Great Heath on *Spiraea*, July 31.
- A. sp. Station F395.
- A. sp. Tarn on *Pontederia cordata* in large numbers, Station F282.

PSEUDANTHONOMUS Dietz

- P. CRATAEGI Walsh. (17299). Parasitic in some galls and seed pods. Swept from *Kalmia* S. W. Harbor, July 13.
- P. sp. Beaten from cherry, Aug. 18.

ELLESCHUS Stephens

- E. BIPUNCTATUS (Linn.) (17333). Taken on willow blossoms which it frequents. May 11.
- E. EPHIPPIATUS (Say) (17335). Occurs on willow and is most variable in size, shape and hue of the dark spots on the elytra. On catkins, May 10 (Br.).

ORCHESTES Illiger

- O. EPHIPPIATUS (Say) (17337). Willow catkins (Br.), May 11.
O. NIGER Horn (17339). Is found on low willows and is quite common. Salisbury Cove, July 15; on catkins (Br.), May 11. On low willows, Sept. 17.
O. CANUS Horn (17343). Record of capture lost.
O. PALLICORNIS Say (17345). Under the name of (*O. canus*) this species was called the "apple flea-weevil" by Forbes. Taken on alder S. W. Harbor; Penikese, Bar Harbor, July 15-Sept. 9.
O. PALLIDIOR Leng (17345a). On catkins, May 11.
O. sp. Corfield, May 30.

ACALYPTUS Schönherr

- A. CARPINI (Herbst). (17351). Introduced from Europe. Occurs on the flowers of willow. Taken May 11, Otter Creek valley; Bar Harbor, May 4-10 (Br.). All on catkins.

PIAZHORINUS Schönherr

- P. SCUTELLARIS (Say) (17353). Gt. Heath (Br.), Aug. 28; Station F290, Sept. 30.

GYMNETRON Schönherr

- G. TETRUM (Fab.) (17359). Common on mullein (*Verbascum thapsus* Linn.) all summer and hibernates beneath the basal leaves.

MIARUS Stephens

- M. HISPIDULUS Lec. (17360). Bar Harbor, July 22.

IJMNOBARIS Bedel

- I. RECTIROSTRIS (Lec.) (17646). Said to be in wet places on rushes. Corfield, June 23. Scarce.

GELUS Casey

- G. OCLATUS (Say) (17699). Taken by beating along edges of marshes. Bar Harbor (Br.), May 11. Scarce.

ACOPTUS Leconte

- A. SUTURALIS Lec. (17726). It is reported to live in the dead wood of beech trees. S. W. Harbor, July 11, in dead beech.

AULEUTES Dietz

- A. TENUIPES (Lec.) (17744). Eden, July 15. Said to breed in the buds of the primrose family.
A. NEBULOSUS (Lec.) (17753). Sweeping vegetation near wet places. S. W. Harbor; Salisbury Cove, July 13-15.

CEUTORHYNCHUS Germar

- C. MARGINATUS (Payk.) (17767). Taken from dead leaves in Fawn Pond, May 30. Said to frequent lettuce and dandelion. Scarce.
C. CYANIPENNIS Germ. (17783). Found on wild cruciferous plants. Bar Harbor, July 19. Sweeping wild mustard (*Brassica* sp.) at the Nurseries, July 18. Some specimens in U.S.N.M.
C. SEPTENTRIONALIS Gyll. (17817). Taken on "hedge mustard" (*Sisymbrium officinale*) Bar Harbor, July 19. Scarce.

PELENOMUS Thomson

- P. SULCICOLLIS (Fåhr.) (17828). Frequents smartweed (*Polygonum*) from which it was swept. N. E. Harbor, July 26. Not common.

RHINONCUS Schönherr

- R. PYRRHOPUS Boh. (17842). Occurs on different species of dock (*Rumex*). Bar Harbor, July 19-24.

CONOTRACHELUS Schönherr

- C. NENUPHAR (Hbst.) (17851). Known as the Plum Curculio. Breeds in plum, cherry, and the like. Reared from cherry "black-knot." Common.
C. POSTICATUS Boh. (17877). Corfield at melon bait in Oct. Station F398 in acorns in damp ground.

CRYPTORHYNCHUS Illiger

C. LAPATHI (Linn.) (17974). The Willow Borer is an introduced species first noted in U. S., 1882. Attacks willow, poplar, and other ornamental trees. Of general distribution. The adults puncture the bark, gouging the cambium layer, while the young, which hatch late in the summer, penetrate the cambium layer in which they hibernate, pupating in the older wood, and emerging the following Spring. Reared from willow as late as July 17.

PHLOEOPHAGUS Schönherr

P. APIONIDES Horn. (18047). Corfield under maple bark, July 7.

RHYNCOLUS Germar

R. BRUNNEUS Mann. (18070). On cedar stump, June 27 (Br.).

SPHENOPHORUS Schönherr

S. COSTIPENNIS Horn. (18114). Breeds in the roots of grass-like plants. Wet meadow south of Penikese, July 14. Scarce.

SCOLYTIDAE. The Bark Beetles

These are to be found in dead trees. Caging dead limbs is an easy way to collect them. Pry bark from stumps.

SCOLYTUS Geoffroy

S. RUGULOSUS Ratz. (18171). Beaten from wild cherry in Eden Graveyard.

CRYPTURGUS Erichson

C. ATOMUS Lec. (18188). This species appears in spruce stumps about 18 months after the tree is felled. Penikese in Aug.

POLYGRAPHUS Erichson

P. RUFIPENNIS (Kby.) (18193). The Spruce Bark Beetle. It infests dying and felled spruce. N. E. Harbor; S. W. Harbor, June.

CARPHOBORUS Eichhoff

C. n. sp. Penikese; in U.S.N.M.

DENDROCTONUS Erichson

D. PICEAPERDA Hopk. (18223). From dead spruce (Br.), Oct. 8.

D. VALENS Lec. (18231). The Turpentine Beetle. Corfield flying, June 16. Dug from dead spruce Bar Harbor, Oct. 8 (Br.).

LEPERISINUS Reitter

L. ACULEATUS (Say). (18252). The host is ash from which it was taken, Corfield, Sept. 13; Indian Point, Sept. 23.

HYLASTINUS Bedel

H. OBSCURUS (Marsh.) (18255). Reared from firewood in laboratory. June 3.

HYLURGOPS Leconte

H. PINIFEX (Fitch) (18267). Spruce stump opposite Penikese, Aug. 5.

XYLOTERINUS Swaine

X. POLITUS (Say) (18304). In burrows of white birch (Br.). May 3.

TRYPODENDRON Stephens

T. RETUSUM (Lec.) (18306). On poplar catkins, Apr. 26 (Br.).

T. BIVITATUM (Kby.) (18309). Mt. Desert, May 7 (Br.).

GNATHOTRICHUS Eichhoff

G. MATERIARIUS (Fitch) (18400). The Pine Wood Stainer. Excavates galleries in the sapwood and heartwood of dying and recently felled pine and spruce. Bar Harbor, June 16.

CONOPHTHORUS Hopkins

C. CONIPERDA (Sz.) (18410). Bar Harbor, May 4.

PITYOPHTHORUS Eichhoff

- P. RAMIPERDA Sw. (18421). Reared from white pine twigs, Aug. 19.
- P. PULICARIUS Zimm. (18423). Boring in diseased red pine tips (Br.), Aug. 29; Reared from white pine twigs, Aug. 19, 1919 (M. W. Blackman).
- P. CARINICEPS Lec. (18437). From blister rust canker (Br.), May 28.
- P. PATCHI Blackman (20668). Taken on Pitch Pine (Sanford).
- P. BIOVALIS Blackm. (20669). Reared from white pine twigs, Aug. 19, 1919 (M. W. Blackman).
- P. MUNDUS Blkm. (21641). Tremont Bog, May 25.

PITYOGENES Bedel

- P. HOPKINSI Sw. (18455). Found in white pine, but not common. Bar Harbor, June 7. Brower bred it from *Populus tremuloides* July 4 and from blister rust white pine Aug. 10. Station F305; in U.S.N.M.

IPS De Geer (*Tomicus* Latreille)

- I. PINI (Say) (18475). The Pine Bark Beetle also found in hemlock. Bred from pine log Corfield, July 21; Lake Wood, Aug. 8 (Sanford). Common.

ORTHOTOMICUS Ferrari

- O. CAELATUS (Eich.). Found in both pine and spruce. Lake Wood, Aug. 8, '21 (Sanford).

DRYOCOETUS Eichhoff

- D. AMERICANUS Hopk. (18538). Occurs in fir and spruce. Long Pond, July 16.
- D. BETULAE Hopk. (18540). Feeds on birch and beech.

Order STREPSIPTERA

STYLOPIDAE

STYLOPS Kirby

S. sp. Echo Lake, June 17. Host *Andrena milwaukeeensis* Groen.

S. sp. N. E. Harbor, July 8 (Minot). Host *Andrena thaspii* Groen.

Order MECOPTERA

PANORPIDAE. Scorpion flies

The way to take the members of this family is by sweeping, particularly near brooks and in gulleys.

PANORPA Linnaeus

P. MACULOSA Hag. Bar Harbor; Green Mt., Aug. 10-17.

P. NEBULOSA Westw. Bar Harbor (Br.); Chasm on Sargent Mt.; Station F242, April 24-Aug. 9.

P. RUFESCENS Ramb. S. W. Harbor; Duck Brook, June 24-July 13.

P. SIGNIFER Banks. Record of capture lost.

P. SUBFURCATA Westw. Echo Lake; S. W. Harbor; Eden; Station F104, July 12-Sept. 10.

Order TRICHOPTERA. The Caddis Flies

PHRYGANEIDAE

PHRYGANEA Linnaeus

P. CINEREA Walk. N. E. Harbor, Aug. 24 (Minot).

P. SAYI Milne. Penikese at light; June 21.

DASYSTEGIA Wallengren

D. VESTITA Wlk. Mt. Desert (Br.) Aug.

D. IMPROBA Hag. Bar Harbor, July 1 (Br.).

OLIGOSTOMIS Martinov

O. CANADENSIS Banks. S. W. Harbor; Corfield at light,
July 10-15.

PTILOSTOMIS Martinov

P. SEMIFASCIATA Say. Penikese and Corfield at light; S. W.
Harbor; June 2-28.

NEURONIA Leach

N. POSTICA Wlk. Mt. Desert (Br.).

BANKSIOLA Martinov

B. SELINA Betten. Penikese at light, June 14-July 15.

B. DOSSUARIA Say. N. E. Harbor, July 1 (Minot).

B. SMITHI (Banks). Mt. Desert (Br.) July 28.

LIMNEPHILIDAE

GLYPHOTAEIUS Stephens

G. HOSTILIS (Hagen). Penikese at light June 1-Aug. 8.

ASTENOPHYLAX McLachlan

A. ARGUS (Harris). Record of capture lost.

ARCTOECIA McLachlan

A. CONSOCIA Wlk. Along the Barcelona Aug. 1, F339.

LIMNEPHILUS Leach

- L. COMBINATUS Walk. Penikese at light, Aug. 7.
L. CONSOCIA Walk. S. W. Harbor; N. E. Harbor, July 26–Aug. 23. See also entry p. 210.
L. DESPECTUS Walk. Bar Harbor; S. W. Harbor, June 24–July 21; Corfield at light, Oct. 15.
L. EXTERNUS Hag. Hatched from larvae from Ireson Hill Pond, Aug. 27.
L. INDIVISUS Walker. Little Round Pond sweeping, June 18; N. E. Harbor, June (Eddy).
L. MOESTUS Banks. Corfield at light; S. W. Harbor bog (Br.); Richardson Brook; Witches' Hole at light; N. E. Harbor; Eden, May 11–Aug. 11.
L. ORNATUS Bks. Penikese and Corfield at light, June 14–July 23.

ANABOLIA Stephens

- A. sp. Sweeping catkins along Middle Rd. Apr. 23.

PLATYCENTROPUS Ulmer

- P. MACULIPENNIS Kolen (*hostis* Hag.). One of our two most common forms. Taken at light Corfield and Penikese.
P. INDICANS (Wlk.). A common form and taken in numbers in the light traps at Penikese and Corfield, June 14–July 28.

CABORIUS Navas

- C. PUNCTATISSIMUS (Wlk.). One specimen taken at Witches' Hole Brook, beating, Sept. 1, '37.
C. LYRATUS Ross. Bar Harbor, Aug. 2 (Br.).

ANABOLINA Banks

- A. SUBMONILIFER Walk. Duck Brook; McKinley swamp; Penikese and Corfield at light, Sept. 12–Oct. 6. Our most common form. Mating pair Corfield Oct. 10.
A. sp. Duck Brook, June.

EUSTANACE Banks

E. LIMBATUS McLachlan. Bar Harbor (Br.) Sept. 17–Nov. 5.

PYCNOPSYCHE Banks

P. GUTTIFER (Wlk.). Echo Lake; Duck Brook; Corfield at light; Sargent Mt. Pond; Seal Cove Brook, Sept. 3–Oct. 6.

P. SCABRIPENNIS (Rambur). Bar Harbor (Br.); Witches' Hole Brook; Canyon Brook at 1000 ft., Aug. 27–Sept. 23.

P. CIRCULARIS (Prov.). Mt. Desert (Br.). Aug. 28.

P. DIVERGENS Walk. One taken Sept. 13.

P. LUCULENTUS Betten. Bar Harbor, Sept. 23.

P. PERPLEXA Betten. N. E. Harbor (Johnson), Aug. 13.

FRENESIA Betten

C. MISSUM Milne. Bar Harbor (Br.). Nov. 7.

C. DIFFICILE Wlk. Bar Harbor, Nov. 5 (Br.).

DRUSINUS Betten

D. SPARSUS (Bks.). Mt. Desert, June 6 (Alexander); Corfield July 16.

CHEUMATOPSYCHE Wallengren

C. ANALIS (Bks.). Bar Harbor, June 7 (Br.).

DIPLECTRONA Westwood

D. MODESTA Banks. Corfield, June 27; Bar Harbor (Br.), June 22.

POLYCENTROPIDAE

POLYCENTROPUS Curtis

P. ALBIPUNCTUS Bks. Bar Harbor, July 6–7. Station F251, July 18.

P. CONFUSUS Hag. Bar Harbor, July 21.

P. SP. Bar Harbor; Witches' Hole, July 22–30.

PLECTROCNEMIA Stephens

- P. CRASSICORNIS (Wlk.). Corfield, Aug. 15. Sea Wall Bog,
June 12 and Bar Harbor, July 7 (Br.).
P. CINEREA Hagen. Bar Harbor, (Br.) June 28.

OLEMIRA Banks

- O. COSTALIS Bks. Bar Harbor. Aug. 12.
O. SP. Canyon Br. 1000 ft. F220. In U. S. N. M.

ATOMIA Banks

- A. FROSTI Milne. Gt. Notch Western Mt. sweeping ferns,
Aug. 26.

LEPIDOSTOMA Rambur

- L. AMERICANA Banks. Bar Harbor, July 17.
L. TOGATUM Hag. Mt. Desert (Br.), Aug. 28.
L. SP. Half Moon Pd., Aug. 17. F273.

LEPIDOSTOMATINAE

- L. GEN. SP. Bar Harbor, July 7, (Br.).

MOLANNIDAE

MOLANNA Curtis

- M. SP. Bar Harbor (Br.), July 7.

LEPTOCERIDAE

ARTHRIPODES Billberg

- A. TRANSVERSUS Hag. Mt. Desert, July 31.

OECETINA Banks

- O. CINERASCENS Hag. Bar Harbor, July-Sept. Penkikese at
light, July 11.

- O. INCONSPICUA* (Walk.). S. W. Harbor, July; Witch Hole Pond, July 30; Corfield at light, July 10-12. .
O. OSTENT Milne. Corfield at light, Sept. 8.
O. PERSIMILIS Bks. Swept from willow. Camp Grounds, Apr. 21.

MYSTACIDES Latreille

- M. SEPULCHRALIS* Wlk. North end of Long Pond, July 26. F337.
M. sp. Echo Lake, July 12.

TRIAENODES McLachlan

- T. FLAVESCENS* Banks. Echo Lake, July 12.
T. DENTATA Bks. Old Beaver Dam, Apr. 21.
T. sp. Mt. Desert, July 7 (Br.).

LEPTOCELLA Banks

- L. EXQUISITA* Walk. Long Pond, June 20.
L. PAVIDA Hag. Toad Hole, July 26.

HYDROPSYCHIDAE

ARCTOPSYCHE McLachlan

- A. APICALIS* Banks. Long Pond, July 16.

HYDROPSYCHE Pictet

- H. ALTERNAN* Wlk. Corfield at light, June 28.
H. sp. Duck Brook; Bar Harbor, July 30.

NEOPHYLAX McLachlan

- N. CONCINNUS* (M'L). Corfield, Sept. 12-October 18; S. W. Harbor (Alexander); Seal Cove, Sept. 5-8.
N. sp. Seal Cove Brook, Oct. 1.
N. sp. Bubble Pond Inlet, Oct. 4.

APATANIA Kolenati

- A. STIGMATELLA (Zett.). Edge of Great Heath sweeping,
Oct. 7, '32. One specimen taken.

SERICOSTOMATIDAE

HELICOPSYCHE Hagen

- H. BOREALIS Hag. Echo Lake, July 17.

MORMOYIA Banks

- M. VERNALIS Bks. Seal Harbor Brook, Aug. 25.
M. SACKENI Bks. Crossroad at Eden, Aug. 24. F349.

PHYLOCENTROPUS Banks

- P. LUCIDUS (Hag.). Echo Lake; Bar Harbor, July 17-30;
Hunters Beach Brook sweeping ferns, June 19.
P. PLACIDUS Banks. Mt. Desert (Br.), June 28.

HOLOCENTROPUS McLachlan

- H. INTERRUPTUS Banks. S. W. Harbor, June 20.
H. sp. Bar Harbor, June 21.

NYCTIOPHYLAX Brauer

- N. VESTITUS (Hag.). Corfield, at light, June 18-Aug. 10.
N. sp. Mt. Desert (Br.).
N. sp. Sea Wall Bog, July.

PHILOPOTAMIDAE

DOLOPHILUS Banks

- D. MOESTUS (Bks.). Somes Sound Inlet; Witch Hole; Break-
neck Brook; Bubble Brook, June 14-23 (Alexander).
D. BREVIATUS Banks. Bar Harbor (Br.), Aug. 12.

CHIMARRHA Leach

- C. ATERRIMA Hag. Bubble Brook; Bar Harbor; Long Pond;
Seal Cove Brook, June 10-Sept. 8.
C. sp.

PHILOPOTAMUS Leach

P. DISTINCTUS (Walk.). Duck Brook, July 30; Corfield, Aug. 3.

P. sp. Outlet of Ripple Pond, Aug. 18.

RHYACOPHILIDAE

RHYACOPHILA Pietet

R. INVARIA Wlk. Long Pond, July 16.

R. TORVA Hag. Canyon Brook 1000 ft. elevation, July 20. Bar Harbor; Duck Brook, June 7-30.

R. GLABERRIMA Uhn. Beating Section 23, June 23.

R. FUSCULA Wlk. Along Middle Road, May 23.

HYDROPTILIDAE

OXYETHIRA Eaton

O. GRISEA Bks. The Tarn, Aug. 1; Gt. Heath, Aug. 9-Sept. 16.

O. DORSALIS Bks. The Tarn, Aug. 1.

O. PALLIDA Bks. The Tarn, Aug. 1.

O. sp. Mt. Desert (Br.), Aug. 30.

O. sp. Mt. Desert, Aug. 19 (Br.).

Order LEPIDOPTERA. (Macrolepidoptera)

The listing of the above Order is by number according to the Check List of the Lepidoptera of Canada and the United States of America, Parts I and II, 1938 and 1939 by Dr. J. McDunnough.

PAPILIONIDAE

PAPILIO Linnaeus

P. AJAX Linn. (4). The Black Swallow-tail. From June to August. The larva feeds on the wild and cultivated *Umbelliferae* including carrot, parsnip, parsley, celery, etc. Has decreased in numbers during the past ten years.

- P. GLAUCUS form TURNUS Linn. (15). Tiger or Yellow Swallowtail. Common in June and early July. The larva feeds on a variety of plants, including cherry, apple, quince, ash, birch, alder, poplar, etc. There was a tremendous hatch in June, 1935 on the Island and I saw more individuals in one week than in the entire fifteen years before. Some individuals could be referred to race *canadensis* R. & J.

COLIAS Fabricius

- C. EURYTHEME Bdv. (41). Orange Sulphur-butterfly. A western species, formerly rarely recorded in New England, became fairly common in 1936-38 and since then found regularly. Specimens lightly marked with orange are relatively rare. Most individuals being rather heavily marked, but not large or deeply colored.
- C. EURYTHEME Bdv. form ARIADNE Edw. (41).
- C. PHILODICE Godt. (42). Clouded Sulphur-butterfly. Common, July-Sept. The larva feeds on a number of the *Leguminosae*, but prefers the clovers.
- C. INTERIOR Scud. (45). Pink-edged Sulphur-butterfly. Sometimes quite common throughout the Island in July. The albino taken at S. W. Harbor, July 24 (Br.).

EUREMA Hubner

- E. LISA B. & L. (72). Little Sulphur-butterfly. "One in excellent condition was taken on Mt. Desert, Me., by Mr. Roland Thaxter in August, 1880" (Scudder). Bar Harbor, Sept. 3, 1934 (Br.).

PIERIS Schrank

- P. NAPI Linn. gen. vern. OLERACEA Harr. (83d). White Mustard-butterfly. Rare. Near Newport Mt. (Reich and Burton). Formerly common throughout northern New England, but since the introduction of *Pieris rapae*, it has become comparatively scarce, probably owing to parasites. The larva feeds on mustard, cabbage, turnip, and other *Cruciferae*.

- P. RAPAE Linn. (86). Imported Cabbage-butterfly. Common. Introduced at Quebec about 1860, it reached Mt. Desert about 1868. The larva feeds chiefly on cabbage, but will also feed on most of the *Cruciferae*, including turnip, mustard, horse radish, water-cress, etc. It is usually kept in check by parasites.

DANAIDAE

DANAUS Kluk

- D. PLEXIPPUS Linn. (89). The Monarch. S. W. Harbor, July, 1918; east of Champlain Mt., 1924 (Burton). It is probably only an occasional visitor during its northern migration. In the absence of milkweed (*Asclepias*), the larva could probably feed on dogbane (*Apocynum*). Bar Harbor, Aug. 2 (Br.). On Sept. 23, '33 there were about sixty individuals feeding on purple aster at Sea Wall.
- D. PLEXIPPUS Linn. ab. FUMOSUS Hlst. Mt. Desert, Aug. 2, '33.

SATYRIDAE

ENODIA Hübner

- E. PORTLANDIA Fab. (96). The Pearl-eyed Nymph. Local in its distribution, wood near the Sieur de Monts Spring; Eden, July 18-24. The larva feeds on grasses. A pupa taken at Bubble Brook July 12, '36 hatched an *Amblyteles n.sp.* One taken at Corfield July 7 was not normally marked on the secondaries and approaches the southern form.

SATYRODES Seudder

- S. EURYDICE Joh. (106). The Common Grass Nymph. Bar Harbor; Eden; S. W. Harbor, July 10-24. The larva feeds on grasses.

MINOIS Hübner

- M. ALOPE MARITIMA Edw. (117a). The Wood Nymph. Common throughout the Island July 15 into Aug. The larva feeds on grasses.
- M. ALOPE NEPHELE Kby. (117c). Common and records same as above.

OENEIS Hbn.

- O. JUTTA Hbn. (130). S. W. Harbor, June 12 (Br.). A northern form, very scarce here.

NYMPHALIDAE

ARGYNNIS Fabricius

- A. CYBELE Fab. (166). Great Spangled Fritillary. Common during July and August. The larva passes the winter in a partly grown state, feeding on violets in the Spring and early Summer. Race *canadensis* McD. is uncommonly found.
- A. APHRODITE Fab. (167). The Silver Spot. July and August. Larva feeds on violets. Not as common as the following species.
- A. ATLANTIS Edw. (171). The Mountain Silver Spot. The most common butterfly of the Island during July and August. The larva feeds on violets.

BRENTHIS Hübner

- B. MYRINA Cram. (200). The Silver-bordered Fritillary. Common throughout the Island during July and August. The larva feeds on violets.
- B. BELLONA Fab. (212). The Meadow Fritillary. Pond Heath; Eden, July 24, 1925. It is local in its distribution, being found only about wet meadows and bogs. The larva usually feeds on violets.

EUPHYDRYAS Seudder

- E. PHAETON Drury (217). The Baltimore. Meadow south of Salisbury Cove, July 14-18, 1923. The larva feeds on turtle-head (*Chelone glabra*). Present again July 5, 1941.

MELITAEA Fabricius

- M. HARRISII Seud. (256). Harris's Checker-spot. Common. Bar Harbor and S. W. Harbor, June 9-25. The larva feeds on asters and turtle-head (*Chelone glabra*).

PHYCIODES Hübner

- P. NYCTEIS Doubl. & Hew. (263). The Silver Crescent. Bar Harbor; Jordan Pond and S. W. Harbor, June 7-25. The larva feeds on asters and other *Compositae*.
- P. THAROS Drury (265). The Pearl Crescent. Common throughout the Island during June, July and August. Variable in color; the Spring form is known as *marcia* and the Summer form as *morpheus*. The larva feeds on aster.

POLYGONIA Hübner

- P. INTERROGATIONIS Fab. (285). The Violet-tip Angle-wing. Mt. Desert, Aug. 20-Sept. 9 (Br.). The form *umbrosa* was taken on Ironbound Isl. by Mr. Dwight Blaney. The larva feeds on nettle, elm, basswood, etc. Rare.
- P. COMMA Hart. (286). The Comma Butterfly. Not common. Ironbound Isl. (Blaney). The form *dryas* was taken at Salisbury Cove, July 14. Larva feeds on nettle, etc.
- P. FAUNUS Edw. (288). The Green Comma. Not common. Bar Harbor, July 29; Seal Harbor (D. Rockefeller). The larva feeds on birch, currant and gooseberry.
- P. PROGNE Cram. (294). The Gray Comma. Eden, July 14; Bar Harbor, Aug. 10. The larva feeds on currant and gooseberry.

NYMPHALIS Kluk

- N. J-ALBUM Bdv. & Lec. (295). The Compton Tortoise. Quite common at S. W. Harbor, Aug. 20. Laboratory, Oct. 10.
- N. MILBERTI Godart. (297). Milbert's Butterfly. Ironbound Isl. (Blaney). Larva feeds on nettle (*Urtica dioica*). Bar Harbor, July 26 (Br.).
- N. ANTIOPA Linn. (298). Mourning Cloak. This species has increased in the past fifteen years and was very abundant in the spring of 1937 owing to the previous mild winter. Out of 52 caterpillars taken, they pupated on July 25 and 50 hatched August 6, showing a case of little parasitism. From the early days of spring when the wintering-over individuals appear, this species is with us until frosts start their hibernation. Larvae found on willow, poplar, elm, etc.

VANESSA Fabricius

- V. ATALANTA Linn. (299). The Red Admiral. Common from first week in July to end of August. Larvae feeds on hops, nettle, and is said to feed on elm.
- V. VIRGINIENSIS Drury (300). Hunter's Butterfly. Common July 20 to end of August. The larvae feeds on everlasting (*Anaphilis*) and cud weed.
- V. CARDUI Linn. (301). The Painted Lady. Common July 27 to August 22. Larvae feeds on a great variety of plants including burdock, thistle, everlasting, etc.

JUNONIA Hübner

- J. COENIA Hbn. (303). But one individual taken, July 28, '35 (Br.).

BASILARCHIA Scudder

- V. ARTEMIS Dru. (321). The Banded Purple. Common from Harbor; Echo Lake; S. W. Harbor; Long Pond, July 1–Sept. 7. The larva feeds on birch, willow and poplar.
- B. ARTEMIS Dru. form PROSPERPINA Edw. (321). One specimen was taken at Echo Lake, July 17, 1918. This form, which is common in the Berkshires and Catskills, is considered a hybrid between the more southern *B. astyanax* and the northern *B. arthemis*. If so, the former must occasionally reach Mt. Desert. In discussing the probable occurrence of *proserpina* at Halifax, Nova Scotia, Mr. Scudder says: "It is not at all improbable that *ursula* (*astyanax*) may yet be found as far north as Mt. Desert, and that colonies of *proserpina* are now living along the whole coast of Maine." (See Butterflies of New England, vol. 1, p. 291, 1889.).
- B. ARCHIPPUS Craml. (325). The Viceroy. Not common. Bar Harbor, Aug. 15. The larva feeds on willow and poplar.
- B. ARCHIPPUS (325). ab. PSEUDODORIPPUS Stkr. Mt. Desert, Aug. '33.

LYCAENIDAE

STRYMON Hübner

- S. MELINUS Hbn. (373). Hulls Cove, June 12; Mt. Desert, May 22–Aug. 2.
 S. EDWARDSII Saund. (385). Mt. Desert, Aug. 9 (Br.).
 S. CALANUS Hbn. (386). Mt. Desert, July 21–Aug. 2.
 S. FALACER Godt. (387). The Banded Hair-streak. Bar Harbor (Br.): Eden, July 18–24. The larva feeds on oak and thorn (*Crataegus*). Scarce.

INCISALLA Scudder

- I. AUGUSTUS Kby. (403). Brown Elfin. Eden in June; Bar Harbor, May 12 through June.
 I. POLIOS Cook & Wats. (409). Bar Harbor, May through June.
 I. NIPHON race CLARKI Frmm. (413). Bar Harbor, May 20–June (Br.). The larva feeds on pine.

ERORA Scudder

- E. LAETA Edw. (418). Bar Harbor, May 19–25 (Br.).

FENISECA Grote

- F. TARQUINIUS Fab. (419). The Wanderer. Bar Harbor, June, July and Aug. (Br.). The larva is carnivorous, feeding on the woolly aphids *Prociphilus tessellata* on the alder and *P. imbricator* on the beech.
 F. TARQUINIUS NOVA-SCOTIAE (419a). McD. Bar Harbor, May 29 (Br.).

LYCAENA Fabricius

- L. EPIXANTHE Bdv. & Lec. (434). The Least Copper. Meadow south of Salisbury Cove in July; Sea Wall Bog, late June and July. Larva feeds on cranberry.
 L. HYPOPHLEAS Bdv. (435). The American Copper. Common Bar Harbor; S. W. Harbor, July 10–Aug. 24. Larva feeds on field sorrel (*Rumex acetosella*).

EVERES Hübner

- E. COMYNTAS Godart. (447). The Tailed Blue. Bar Harbor, May 26–Sept. 14, two broods. The larva feeds on clover and other leguminous plants.

PLEBEIUS Kluk

- P. SAEPIOLUS Bdv. (453). Mt. Desert, June 29–July 5 (Br.).
P. SAEPIOLUS form INSULANUS Blkmre. (453b). Mt. Desert, June 29–July 5 (Br.).

LYCAENOPSIS F. and F.

- L. PSEUDARGIOLUS B. & L. (475). The Common Blue. Common Bar Harbor; S. W. Harbor, June 7–July 21. The larva feeds on a great variety of plants. The species is extremely variable, the spring forms *lucia* and *marginata* and the summer form *neglecta* being present.

HESPERIDAE

THORYBES Seudder

- T. PYLADES Scud. (505). Station F244, June 18; Bar Harbor, June.

ERYNNIS Schrank

- E. ICELUS Scud. & Burg. (541). Corfield; S. W. Harbor; Echo Lake; Station F243, June 12–July 24. Reared from larvae on poplar and *Robinia* (Br.).

CARTEROCEPHALUS Lederer

- C. PALAEMON Pall. (563). Bar Harbor, June 7–22.

ANCYLOXYPHA Felder

- A. NUMITOR Fabr. (567). Great Heath, July 5 (Br.).

HESPERIA Fabricius

- H. COMMA race LAURENTINA Lym. (584bb). Mt. Desert, Aug. 12-18 (Br.). This race is moving southward.
- H. LEONARDUS Harr. (591). Norway Drive, Sept. 10 (Br.). Rare and local in old fields.
- H. SASSACUS Harr. (598). Echo Lake, July 12; Bar Harbor, June 10-14 (Br.). The larva feeds on grasses.

POLITES Scudder

- P. THEMISTOCLES Latr. (611). Echo Lake; Eden, July 12-15.
- P. PECKIUS Kby. (614). Generally distributed, June 20-Aug. 10. The larva feeds on grasses.
- P. MYSTIC Scud. (618). Ironbound Island (Blaney); Bar Harbor.

CATIA Godman and Salvin

- C. OTHO A. & S. (621). Echo Lake, July 12.

POANES Scudder

- P. HOBOMOK (Harris) (624). Echo Lake; N. E. Harbor; S. W. Harbor, June 17-July 10. This species has dimorphic females. The larva feeds on grasses.

ATRYTONE Scudder

- A. BIMACULA G. & R. (641). Penikese, June 30-July 15.
- A. RURICOLA Bdv. (642). Bar Harbor, July 13-Aug. 3 (Br.).

AMBLYSCIRTES Scudder

- A. VIALIS Edw. (660). Echo Lake; Bar Harbor; Section 24; Station F192, June 15-July 12. The larva feeds on grasses.
- A. HEGON Scud. (661). Bar Harbor, June 7-July 16 (Br.).

SPHINGIDAE

PHILEGETHONTIUS Hübner

- P. QUINQUEMACULATA Haw. (697). Found dead in a greenhouse, Oct., 1937 (Br.).

DOLBA Walker

- D. HYLAEUS Dru. (703). Penikese at light, June 28. Larva feeds on blueberry and privet. Scarce.

CERATOMIA Harris

- C. UNDULOSA Walk. (707). The Waved Sphinx. Bar Harbor, July 29. Hulls Cove, June 22. The larva feeds on ash, lilac, privet, etc. Not common.

SPHINX Linnaeus

- S. CHERSIS Hbn. (719). The Chersis Sphinx. Bar Harbor, July 10 (Pierson) and Penikese during July. The larva feeds on ash, lilac, wild cherry, etc.
- S. CANADENSIS Bdv. (725). There is a specimen in the Carnegie Museum labeled "from W. Reiff" with no date. Plentiful in some parts of the state.
- S. KALMIAE Abb. & Sm. (727). The Laurel Sphinx. Common, July 30–Aug. 14. The larva feeds on laurel, ash and lilac.
- S. GORDIUS Cram. (728). The Gordian Sphinx. Bar Harbor; Penikese at light, June 7–Aug. 30. The larva feeds on huckleberry, birch, *Rosacea*. Abundant in 1937.
- S. DRUPIFERARUM Abb. & Sm. (730). The Wild Cherry Sphinx which prefers that tree but will feed on various others. Bar Harbor, July 29 (Br.).

LAPARA Walker

- L. BOMBYCOIDES Walk. (736). The Bombyx Sphinx. Penikese at light, June 18–July 9. Reared from larvae on red and white pine (Br.).

SMERINTHUS Latreille

- S. JAMAICENSIS Drury, form GEMINATUS Say (739). The Twin-spot Sphinx. Common, Corfield, Penikese from June 15 to July 15. The larva feeds on birch, cherry, etc.
- S. CERISYI Kby. (740). Corfield at light around the middle of June. Larva feeds upon willows. Not as plentiful as the above.

PAONIAS Hübner

- P. EXCAECATA Abb. & Sm. (741). The Blinded Sphinx. N. E. Harbor; Corfield and Penikese at light, June 29–July 25. The larva feeds on various plants of the order *Rosaceae*, also on willow, etc.
- P. MYOPS Abb. & Sm. (742). The Small-eyed Sphinx. Penikese at light, July 1–23. The larvae also feed on various *Rosaceae*. Not as plentiful as above.

PACHYSPHINX Rothschild and Jordan

- P. MODESTA Hart. (745). The Big Poplar Sphinx. Common. Large hatch 1935. Penikese, June. The larva feeds on poplar and willow.

AELLOPOS Hübner

- A. TITAN Cram. (765). The White-banded Day-sphinx. Penikese, July. Scarce and its northern limit.

HEMARIS Dalm

- H. THYSBE Fab. form CIMBICIFORMIS (767). The Hummingbird Clear-wing. Common, June 8–July 28. The larva feeds on *Viburnum*, *Lonicera*, etc. The most common species of the genus and is a dimorphic form.
- H. GRACILIS Grt. & Rob. (768). The Graceful Clear-wing. Great Clearing; Witch Hole Pond; S. W. Harbor in June. The most scarce of the three species.
- H. DIFFINIS Bdv. (770). The Snowberry Clear-wing. Common, June 12–July 17. The larva feeds on snowberry (*Symphoricarpus*), *Lonicera*, etc. The spring form is called *tenuis* and the summer that above.

PHOLUS Hübner

- P. PANDORUS Hbn. (772a). One individual taken at Corfield. The larva feeds on Virginia creeper (*Ampelopsis*) and the *Vitaceae*. A northern record for this species.

DARAPSA Walker

- D. PHOLUS Cram. (780). Azalea Sphinx. The caterpillar feeds on *Azalea* and *Viburnum*. Penikese at light, June 7; Bar Harbor, July, at light.

AMPHION Hübner

- A. NESSUS Cr. (785). The Nessus Sphinx flies just before sunset. The caterpillar feeds on wild grape, *Ampelopsis*, *Rhodora* and lilac. Scarce. Bar Harbor, July 6 (Br.).

CELERIO Oken

- C. GALLII var. INTERMEDIA Kby. (798a). The Galium Sphinx. N. E. Harbor, Aug. 15 (Minot); Penikese at light, June 22. The larva feeds on fire weed (*Epilobium*). Scarce.
- C. LINEATA Fab. (799). The Striped Morning Sphinx. Penikese and Corfield at light, June 15–Aug. 23. The larva feeds on a variety of plants, evening primrose, currant, etc.

SATURNIIDAE

PLATYSAMIA Grote

- P. CECROPIA Linn. (804). The Cecropia Moth which is common toward the south is scarce here. But few individuals taken. Penikese at light in June.
- P. COLUMBIA Smith (806). Eden at light, June 15. Not common. The caterpillar feeds on the larch.

ACTIAS Leach

- A. LUNA Linn. (811). Luna Moth. Generally distributed and increasing in numbers during the past five years. June 20–Aug. 1.

TELEA Hübner

T. POLYPHEMUS Cram. (812). The American Silk-worm. Common. The larvae is a general feeder on deciduous trees.

AUTOMERIS Hübner

A. 10 Fab. The Io Moth. (818). A common species in New England and a general feeder but scarce here for I have taken but one specimen, Aug. 1, '40 at Corfield.

CITHERONIDAE

ANISOTA Hübner

A. VIRGINIENSIS Drury (846). The Virginian Anisota. Jordan Pond; Bar Harbor; S. W. Harbor, June 10-25; Bar Harbor, June 24 (Br.). The larva feeds on oak and is known as the Rosy-striped Oak-worm.

A. RUBICUNDA Fab. (848). The Rosy Maple Moth is the name of the adult and the caterpillar is known as the Green-striped Maple-worm. N. E. Harbor, June 21-June 26 (Minot); Penikese and Corfield at light during June.

AMATIDAE

SCEPSIS Walker

S. FULVICOLLIS Hbn. (871). Sea Wall on goldenrod, Station F159; Penikese at light, Sept. 11-23. The moths frequent the blossoms of *Solidago* in the late summer.

LYCOMORPHA Harris

L. PHOLUS Drury (877). Station F211; N. E. Harbor; Robinson Mt., July 24-Sept. 3. The larva feeds on lichens while the moth, which is diurnal, prefers the flowers of the *Compositae*.

CTENUCHA Kirby

C. VIRGINICA Charp. (884). Common, July 10-Aug. 15. The larva feeds on grasses.

NOLIDAE

SARBENA Walker

S. MINUSCULA Zell. (897). Corfield, June 25; Bar Harbor, June 22–July 17 (Br.).

ARCTIIDAE

LEXIS Wallengren

L. BICOLOR Gr. (905). Corfield and Penikese at light; Bar Harbor, at light.

CRAMBIDIA Packard

C. PALLIDA Pack. (906). The Pale Lichen Moth. Bar Harbor, July 27–Aug. 18 (Br.).

CLEMENSIA Packard

C. ALBATA Pack. (952). The Little White Lichen Moth which is generally distributed. Bar Harbor, Aug. 16.

HYPOPREPIA Hübner

H. FUSCOSA Hbn. (959). Sept. 29, '38 (Br.). Scarce.

HALISIDOTA Hübner

H. MACULATA Harr. (980). Penikese at light, June 23. The larva feeds on willow, poplar, alder and oak.

H. TESSELLARIS Abb. & Sm. (984). Penikese at light; S. W. Harbor, June 23–Aug. 1. The larva feeds on various shade and fruit trees.

EUBAPHE Hübner

E. LAETA TREATH Grt. (1016a). Corfield at light; Bar Harbor (Br.), July 6–14.

E. AURANTIACA form QUINARIA Grote. (1019). Paradise Hill and Penikese at light; S. W. Harbor (Br.), July 13–Aug. 14.

- E. AURANTIACA* var. *RUBICUNDARIA* Hbn. (1019a). Common, July 16–Aug. 24. The larva feeds on a variety of plants.
E. LAMAE Frmm. (1019.1). Sea Wall Bog, July 18–25 (Br.).
E. FERRUGINOSA form *IMMACULATA* Reak. (1023). N. E. Harbor (Minot); July 26.

PHRAGMATOBIA Stephens

- P. FULIGINOSA* Linn. (1028). The Ruby Tiger Moth. Bar Harbor, May 2–20 (Br.). The caterpillar feeds upon many herbaceous plants and is partial to the shoots of *Solidago*.
P. ASSIMILANS Wlk. (1029). Penikese at light, May 25–Aug. 5.

APANTESIS Walker

- A. VIRGO* Linn. (1033). The Virgin Tiger Moth. Common, July 27–Aug. 16. The larva feeds on plantain, lettuce, etc.
A. INTERMEDIA Stretch. (1034). Bar Harbor (Br.); Corfield at light, Aug. 9–10. Scarce.
A. PARTHENICE Kby. (1035). N. E. Harbor, Aug. 29 (Minot).
A. DORIS Bdv. (1037). Corfield and Penikese at light, June 1–Aug. 16.
A. VIRGUNCULA Kirby (1044). Manset; S. W. Harbor, June 21; Penikese at light, June 13–23. The variations of this moth refute all of the attempts of “specialists” to set up sub-species based upon an extra dot or two on a wing.

DIACRISIA Hübner

- D. VIRGINICA* Fab. (1065). The White Tiger Moth. Generally distributed, June 16–Aug. 15. The caterpillar is known as the “woolly bear” and feeds on various plants including peas, beans, grasses, garden flowers, etc.

ISIA Walker

- I. ISABELLA* Abb. & Sm. (1069). The larva is called the “banded woolly bear” and feeds on clover, plantain, dandelion, etc. Common everywhere in U. S.

ESTIGMENE Hübner

- E. ACRAEA Drury (1070). The Acraea Moth. Bar Harbor; S. W. Harbor; Eden, June 9–25. The larva is a general feeder. Common.
- E. PRIMA Slosson (1072). Bar Harbor (Br.); Penikese and Corfield at light, June 14–July 7.
- E. CONGRUA Wlk. (1073). Corfield at light, June 22.

HYPIANTHRIA Harris

- H. TEXTOR Harr. (1074). The Northern or Spotless Fall Webworm. Bar Harbor; Penikese at light; N. E. Harbor, June 19–July 18. The larvae form webs on various fruit and shade trees in late August and early September.

PARASEMIA Hübner

- P. PARTHENOS Harr. (1092). The St. Lawrence Tiger Moth. S. W. Harbor, June 22, from pupa; N. E. Harbor, July 7 (A. R. Allen); Bar Harbor, July 22; many around the middle of July, 1937.

ARCTIA Schrank

- A. CAJA AMERICANA Harr. (1098d). The Great Tiger Moth. Bred July 27–31 from female captured at light (Br.).

UTETHEISA Hübner

- U. BELLA Linn. (1099). Witch Hole Pond, Sept. 11. The larva feeds on cherry, elm, etc. while the moth is found on *Solidago*.

AGARISTIDAE

ALYPIA Hübner

- A. LANGTONI Couper (1116). Langton's Forester. Little Duck Island, July 16 (Br.).

PHALAENIDAE

COLOCASIA Ochsenheimer

- C. FLAVICORNIS* Sm. (1122). Bar Harbor, July 2 (Br.).
C. PROPINQUILINEA Grt. (1123). Bar Harbor, June 17–July 10 (Br.).

PANTHEA Hübner

- P. ACRONYCTOIDES* Wlk. (1125). Bar Harbor, June 24 (Br.).
P. FURCILLA Pack. (1130). Common in July. The larva feeds on larch and pine.

CHARADRA Walker

- C. DERIDENS* Guen. (1135). Bar Harbor, June 14–July 27. (Br.); Penikese at light, June 2–30. The caterpillar makes a case for itself by drawing two leaves together with strands of silk.

RAPHIA Hübner

- R. ABRUPTA* Grt. (1140). July 20 (Br.).
R. FRATER Grt. (1141). Generally distributed from middle of July–Aug. 1. The curious larva feeds on poplar and willow.

ACRONICTA Ochsenheimer

- A. AMERICANA* Harr. (1148). The American Dagger Moth. The caterpillar feeds upon many kinds of deciduous trees which no doubt accounts for its being found almost everywhere east of the Rockies. Corfield at light, July 30; Bar Harbor, July 20.
A. DACTYLINA Grt. (1151). Corfield and Penikese at light. Bar Harbor; N. E. Harbor; S. W. Harbor; July 16–28. The larva feeds on alder, birch and willow.
A. LEPUSCULINA Gn. (1153). Bar Harbor, July 1–27 (Br.).
A. LEPUSCULINA Gn. var. (1153). Bar Harbor, June 27 (Br.).
A. LEPORINA VULPINA Grt. (1154a). Bar Harbor, July 20–Aug. 8. Rare.

- A. INNOTATA Gn. (1155). The Unmarked Dagger Moth. N. E. Harbor; S. W. Harbor, July 15-20. Penikese at light, July 26; Bar Harbor, July 14 (Br.); Corfield sugaring, Aug. 8.
- A. TRITONA Hbn. (1159). Bar Harbor, July 28 (Br.). Scarce.
- A. GRISEA Wlk. (1160). The Gray Dagger Moth. The larva feeds on apple, birch, elm and willow. Bar Harbor, July 10-25 (Br.).
- A. HASTA Guen. (1176). The Dart Dagger Moth. Penikese at light, June 27.
- A. MORULA G. & R. (1181). The Darkish Dagger Moth. Apple, elm and linden are the favorite foods of this caterpillar. Bar Harbor, July 15-30 (Br.).
- A. LOBELIAE Gn. (1183). The Lobelia Dagger Moth. The larva feeds on oak. Bar Harbor, May 29 (Br.).
- A. HAMAMELIS Gn. (1193). Bar Harbor, July 8-13; Penikese at light, July 3.
- A. AFFLICTA Grt. (1198). Penikese at light, June 27.
- A. IMPLETA Wlk. (1201). The Yellow Haired Dagger Moth. The larva is a general feeder on shrubs and deciduous trees. Bar Harbor, July 4 (Br.).
- A. IMPRESSA Wlk. (1204). The Printed Dagger. Larva feeds on blackberry, currant, hazel, plum and willow. Penikese at light, July 26; Bar Harbor, July 31-Aug. 14 (Br.).
- A. LITHOSPILA Grt. (1209). The Streaked Dagger. The larvae in this region feed on oak. Bar Harbor, Aug. 8 (Br.).
- A. LANCEOLARIA Grt. (1215). Bar Harbor (Bliss Field) (Br.). Larva taken on *Spiraea latifolia*. Larva determined by S. E. Crumb.

HARRISIMEMNA Grote

- H. TRISIGNATA Wlk. (1223). Mt. Desert, July 10-19 (Br.). The larva feeds on the lilac and winterberry. Rare.

EUXOA Hübner

- E. DETERSA Wlk. (1272). Bar Harbor, Sept. 22 (Br.).
- E. PERPOLITA Morr. (1292). S. W. Harbor; Corfield at light; Aug. and Sept.

- E. VELLERIPENNIS* Grt. (1296). Bar Harbor, Aug. 23 (Br.).
E. MIMALLONIS Grt. (1309). Aug. 8–Sept. 12 (Br.). A rare species.
E. MESSORIA Hart. (1310). Eden; N. E. Harbor; Bar Harbor, Aug. 15–Sept. 6. The larva is one of the most troublesome of the early cutworms. Common.
E. MESSORIA ab. *FRIABILIS* Grt. (1310). Bar Harbor (Br.), Aug. 23–Sept. 9.
E. SCHOLASTICA McD. (1315). Mt. Desert, Aug. 17 (Br.).
E. FUMALIS Grt. (1321). Bar Harbor, Aug. 9–Sept. 15.
E. TESSELLATA Harr. (1341). Striped Cutworm. Bar Harbor, Aug. 25 (Br.).
E. DECLARATA Wlk. (1351). Bar Harbor, Aug. 25–31 (Br.).
E. REDIMICULA Morr. (1371). Eden, Aug. 24. The larva attacks the buds of blueberry.
E. OCHROGASTER Gn. (1378). Penikese, Aug.

AGROTIS Ochsenheimer

- A. VETUSTA* Wlk. (1416). The Spotted-legged Cutworm. Penikese, Sept.
A. MOLLIS Wlk. (1419). N. E. Harbor (Minot); Bar Harbor (Br.), July 12–Aug. 25.
A. VENERABILIS Wlk. (1425). Bar Harbor; N. E. Harbor; Penikese and Corfield at light through the month of September.
A. VOLUBILIS Harv. (1432). Bar Harbor, Sept. 24 (Br.).
A. YPSILON Rott. (1435). Bar Harbor, July 22; Corfield sugaring and at light, June 6–Aug. 5. The larva is one of the troublesome cutworms. A very common species.

FELTIA Walker

- F. DUCENS* Wlk. (1442). The larva is one of the most common cutworms and feeds on almost everything. Common.
F. SUBGOTHICA Haw. (1445). The Dingy Cutworm. Penikese at light.

F. ANNEXA Treit. (1450). The Granulated Cutworm. Bar Harbor, Oct. 28 (Br.).

F. GENICULATA Grt. & Rob. (1451). Salisbury Cove, Aug. 12; S. W. Harbor, Sept. 18.

ACTEBIA Stephens

A. FENNICA Tausch (1452). The Black-lined Cutworm. Bar Harbor, all summer.

SPAELOTIS Boisduval

S. CLANDESTINA Harr. (1472). The Well-marked Cutworm. Bar Harbor, July 6 (Br.). Penikese under bark, July 5. Corfield, July. Anything edible seems to satisfy this cutworm.

EUROIS Hübner

E. OCCULTA Linn. (1475). N. E. Harbor, July 19-27 (Minot); Bar Harbor, Aug. 6-Sept. 21. In this section it is a blueberry feeder. A distinctly northern species.

E. ASTRICTA Morr. (1476). N. E. Harbor; Penikese at light, July 31 Aug. 20. Among the food plants are alder, gray birch, wild cherry, blueberry, strawberry.

OCHIROPLEURA Hübner

O. PLECTA Linn. (1480). Corfield at light, July. Scarce.

EUAGROTIS McDunnough

E. LUBRICANS Gn. var. (1482). Bar Harbor, July 11-Aug. 31.

E. ILLAPSA Wlk. (1483). Corfield at light, July 25.

METALEPSIS Grote

M. FISHI Grt. (1493). Mt. Desert, April 27 (Br.).

M. SALICARUM Wlk. (1494). Mt. Desert, April 26 (Br.).

PERIDROMA Hübner

- P. MARGARITOSA form SAUCIA Hbn. (1496). The Variegated Cutworm. Bar Harbor, Aug. 31 (Br.).

HEMIPACHNOBIA McDunnough

- H. MONOCHROMATEA Morr. (1497). Sea Wall Bog, July 9-19 (Br.). A northern bog species.

PSEUDOSPAELOTIS McDunnough

- P. HARUSPICA Grt. (1499). Corfield at light; Newport Meadow, July 20-Sept. 2.

HEPTAGROTIS McDunnough

- H. PHYLLOPHORA Grt. (1502). N. E. Harbor, July 27 (Minot). Bar Harbor, July 18-Aug. 2 (Br.). While wild cherry is the favorite food plant, it will eat willow, alder, birch, blueberry, etc.

DIARSIA Hübner

- D. CYNICA Sm. (1504). Bar Harbor, Aug. 3-31 (Br.).
D. JUCUNDA Wlk. (1507). Bar Harbor, July 10-18 (Br.).

GRAPHIPHORA Ochsenheimer

- G. C-NIGRUM Linn (1511). The Spotted Cutworm. Bar Harbor, June 4-Oct. 12 (Br.); Corfield at light, Sept. 15.
G. SMITHI Snell (1512). N. E. Harbor, July 12. Corfield at light, Sept. 1.
G. NORMANIANA Grt. (1513). Bar Harbor, Aug. 8-18 (Br.).
G. COLLARIS G & R (1522). Bar Harbor; Penikese at light, Aug. 13-Sept. 6.
G. BICARNEA Gn. (1523). N. E. Harbor; Eden; Corfield at light; Bar Harbor (Br.), Aug. 2-Sept. 2. The larva is a troublesome cutworm and among its foods are blueberry, maple, gray birch, meadow-sweet and dandelion.
G. TENUICULA Morr. (1525). Bar Harbor, Aug. 10-31 (Br.).
G. OPACIFRONS Grt. (1527). Bar Harbor, Aug. 24.

ANOMOGYNA Staud.

- A. PERQUIRITATA Morr. (1555). Penikese at light, Aug. 13. Bar Harbor, July. Rare.
- A. ELIMATA GRISATRA Sm. (1561a). Bar Harbor, Aug. 24 (Br.). Corfield at light, Aug. 25.
- A. ELIMATA BADICOLLIS Grt. (1561b). N. E. Harbor (Minot); Bar Harbor (Br.), July 17–Sept. 13.
- A. DILUCIDA Morr. (1562). Bar Harbor, Aug. 23–Sept. 7 (Br.).
- A. DILUCIDA form YOUNGI Sm. (1562). Bar Harbor, Aug. 23–Sept. 9 (Br.).
- A. DILUCIDA ATOMA Sm. (1562a). Bar Harbor, Aug. 23–26 (Br.).

APLECTOIDES Butler

- A. CONDITA Gn. (1568). Bar Harbor, July 2 (Br.).

ANAPLECTOIDES McDunnough

- A. PRESSUS Grt. (1569). S. W. Harbor, July 10; Bar Harbor, July.
- A. PRASINA Fab. (1570). The Green-winged Dart-moth. N. E. Harbor, July 19 (Minot); Bar Harbor; Corfield, July 14–Aug. 20. Has a wide range in the north.

PROTOLAMPRA McDunnough

- P. RUFIPECTUS Morr. (1571). Bar Harbor, Aug. 24–28.
- P. BRUNNEICOLLIS Grt. (1572). Bar Harbor, July 14–Aug. 23 (Br.). Food plants are low ones and include dandelion, sweet fern, and blueberry.

CRYPTOCALA Benjamin

- C. ACADIENSIS Beth. (1575). S. W. Harbor; N. E. Harbor; Eden, Aug. Bar Harbor, July 29–Aug. 23.

EURETAGROTIS Smith

E. PERATTENTA Grt. (1577). N. E. Harbor, July 22 (Minot).
Bar Harbor, Aug. 3 (Br.). Food plants are blueberry and
wild cherry.

E. ATTENTA Grt. (1578). N. E. Harbor; Eden; Bar Harbor
(Br.), July 7–Aug. 7.

ABAGROTIS Smith

A. PLACIDA Grt. (1593). Bar Harbor, Aug. 20 (Br.).

A. ALTERNATA Grt. (1601). Bar Harbor, Sept. 6 (Br.).

RHYNCHAGROTIS Smith

R. CUPIDA Grt. (1602). Bar Harbor, Aug. 4–17 (Br.).

R. CUPIDA form BRUNNEIPENNIS Grt. (1602). Bar Harbor,
Aug. 7–20. Penikese at light, last of Aug.

R. CUPIDA var. (1602). Bar Harbor, Aug. 24 (Br.).

R. ANCHOCELOIDES Gn. (1604). S. W. Harbor, Sept. 8.

UFEUS Grote

U. SATYRICUS Grt. (1611). Somesville, under bark of dead
spruce, Sept. 28. Scarce.

SCOTOGRAMMA Smith

S. TRIFOLII Rott. (1633). Penikese at light, last of Aug.

S. TRIFOLII ALBIFUSA Wlk. (1633a). Bar Harbor, Aug. 16
(Br.).

POLIA Ochsenheimer

P. NIMBOSA Gn. (1663). Bar Harbor, July 5–22 (Br.).
Scarce.

P. IMBRIFERA Gn. (1667). Corfield at light, July 13; Bar
Harbor, Aug. 7 (Br.). Scarce.

P. IMBRIFERA var. Record of capture lost.

P. PURPURISSATA Grt. (1669). Penikese at light, Aug. 22.
Larva feeds on sweet fern, blueberry, *Spiraea*, *Rhodora*, etc.

- P. GRANDIS* Bdv. (1672). Penikese at light, June 23–July 19.
P. SUBJUNCTA G & R (1673). Bar Harbor, July 9–Aug. 2 (Br.). Feeds upon the fruit of the blueberry but will eat the leaves.
P. LATEX Gn. (1675). Bar Harbor, May 19–July 6 (Br.).
P. ATLANTICA Grt. (1677). Bar Harbor (Br.), July 10.
P. LEGITIMA Grt. (1683). Penikese at light July 13.
P. TACOMA Strk. (1684). Penikese at light, June 7.
P. RUGOSA Morr. (1685). Penikese at light, June 15. Bar Harbor, June 8–July 4 (Br.).
P. LILACINA Harv. (1687). Penikese and Corfield at light; Bar Harbor (Br.), June 24–July 31.
P. LILACINA var. Record of capture lost.
P. ADJUNCTA Bdv. (1691). Bar Harbor June 26 (Br.). Rear-ed July–Aug.
P. ASSIMILIS Morr. (1693). Penikese at light, July 2–Aug. 1.
P. LUTRA Gn. (1699). Penikese at light, June 14; Bar Harbor, July.
P. DETRACTA Wlk. (1709). Bar Harbor, July. Food plants include service berry, gray birch and blueberry.

LACINIPOLIA McDunnough

- L. MEDITATA* Grt. (1712). Penikese at light, Aug. 6; Bar Harbor, Aug. 5–24. Very rare.
L. LUSTRALIS Grt. (1714). Penikese at light, June 23.
L. ANGUINA Grt. (1716). Bar Harbor, June 30–Sept. 11.
L. RENIGERA Steph. (1738). Bar Harbor, Aug. 12–Sept. 2.
L. LOREA Gn. (1744). Bar Harbor, June 6–July 7 (Br.). Sweet fern and *Spirea* are the favorites among its food plants.
L. OLIVACEA Morr. (1745). Bar Harbor, Aug. 11–24.

SIDERIDIS Hübner

- S. ROSEA* Harv. (1800). Penikese at light, June 2.
S. MARYX Gn. (1802). Narrows; Penikese at light; Bar Harbor (Br.); Otter Cliff's, June 28–July 9. Scarce.

TRICHOLOITA Grote

T. SIGNATA Wlk. (1821). N. E. Harbor; Salisbury Cove; Corfield at light, July 31–Aug. 17.

T. SIGNATA form IGNA B. & B. (1821). Bar Harbor, Aug. 7 (Br.).

ORTHODES Guenée

O. OVIDUCTA Gn. (1855). Mt. Desert, June 16–July 7 (Br.).

O. CRENULATA Butl. (1871). N. E. Harbor, Aug. 5 (Minot).

O. CYNICA Gn. (1872). Record doubtful but should be found here.

O. VECORS Gn. (1876). S. W. Harbor; N. E. Harbor, July 13–Aug. 23.

O. CONTRAHENS Wlk. (1886). Mt. Desert, Aug. 7 (Br.).

O. FURFURATA Grt. (1890). Bar Harbor, July 8–Aug. 1.

NEPHELODES Guenée

N. EMMEDONIA Cram. (1895). The Bronzed Cutworm. Common, July 13–Sept. 6. The larva feeds on *Solidago*, etc.

N. EMMEDONIA form VIOLANS Gn. (1895). Penikese, Aug. 20–Sept. 1.

MORRISONIA Grote

M. EVICTA Grt. (1903). Bar Harbor, May 8–21 (Br.).

M. EVICTA form VOMERINA Grt. (1903). Bar Harbor, May 15–18.

XYLOMYGES Guenée

X. DOLOSA Grt. (1914). Bar Harbor, Apr. 28–May 29 (Br.).

ORTHOSIA Ochsenheimer

O. RUBESCENS Wlk. (1937). Bar Harbor, May 5 (Br.). Scarce.

O. REVICTA Morr. (1940). Bar Harbor, May 22.

O. HIBISCI Gn. (1943). Bar Harbor, Apr. 27 (Br.).

CROCIGRAPHA Grote

C. NORMANI Grt. (1950). Mt. Desert, Apr. 27–June 3 (Br.).

CERAMICA Guenée

C. PICTA Harr. (1951). The Zebra Caterpillar. Penikese at light, June 2–21; Bar Harbor, Aug. 29 (Br.). Larva will feed on most garden plants.

PROTOLEUCANIA McDunnough

P. ABILINEA Hbn. (1962). Penikese at light, June 15. N. E. Harbor, Aug. 10 (Minot). The larva feeds on grasses and grain.

P. ABILINEA form DIFFUSA Wlk. (1962a). Penikese at light, June 15.

LEUCANIA Ochsenheimer

L. PSEUDARGYRIA Gn. (1973). N. E. Harbor, July 22 (Minot).

L. PSEUDARGYRIA form CALLIDA Grt. (1973). Bar Harbor, July.

L. INERMIS Fbs. (1975). Bar Harbor, June 27–July 7 (Br.).

L. COMMOIDES Gn. (1977). Penikese at light, July 13–Aug. 20.

L. PHRAGMATIDICOLA Gn. (1978). Bar Harbor, Aug. 30.

L. MULTILINEA Wlk. (1982). N. E. Harbor (Minot); Bar Harbor (Br.); Corfield at light, July 13–30.

L. LATIUSCULA H. S. (1991). Bar Harbor, Aug. 31, 1935 (Br.). Very rare.

L. INSUETA Gn. (1992). S. W. Harbor, July 13; Penikese at light, June 28; Bar Harbor, May and July.

L. UNIPUNCTA Haw. (1994). The Army Worm. A brood in May and another during August.

L. LUTEOPALLENS Sm. (1995). S. W. Harbor; Bar Harbor, Aug. 5–Sept. 22 (Br.); Eden, July 13–Aug. 25. The larva feeds on grasses.

CUCULLIA Schrank

C. INTERMEDIA Spey. (2038). Penikese at light, May 26; Station F190, June 2; Eden, Aug.; Bar Harbor, July 19–Aug. 18.

- C. FLOREA* Ghl. (2041). Bar Harbor, Aug. 1-27 (Br.).
C. POSTERA Ghl. (2042). Bar Harbor, July 18-30 (Br.).
C. OMISSA Dod? (Det. Benjamin) (2043). Bar Harbor, July 14 (Br.).
C. ASTEROIDES Ghl. (2044). Bar Harbor, Aug. 23 (Br.).
C. CONVEXIPENNIS G. & R. (2046). N. E. Harbor; Penikese and Corfield at light, June 20-Aug. 25.

ONCOCNEMIS Lederer

- O. PIFFARDI* Wlk. (2116). S. W. Harbor; Penikese at light, Sept. 26; Bar Harbor, Sept. 8-14; Robinson Mtn., Aug. 31.

APHARETRA Grote

- A. DENTATA* Grt. (2156). Eden, Aug. 7; Bar Harbor, Aug. 2-14, July 22-Aug. 14.

FERALIA Grote

- F. JOCOSA* Ghl. (2183). Bar Harbor, May 18-28 (Br.). Scarce.
F. JOCOSA Ghl. *FURTIVA* (2183a) Sm. In a hemlock grove, May 8 (Br.).
F. MAJOR Shl. (2185). Bar Harbor, May 11-29 (Br.). Usually frequents pine woods.
F. COMSTOCKI Grt. (2186). Corfield and Penikese at light, June 1-6.

BOMBYCIA Stephens

- B. ALGENS* Grt. (2207). Bar Harbor (Br.); Penikese at light, Aug. 17-Sept. 27. A rare form anywhere.

BRACHYLOMIA Hampson

- B. DISCINIGRA* Wlk. (2209). Bar Harbor, Aug. 30 (Br.). A very rare form.

HILLIA Grote

- H. IRIS* Zett. (2211). Penikese at light, Sept. 27.

LEMMERIA Barnes and Benjamin

- L. DIGITALIS* Grt. (2214). Bar Harbor, Sept.

LITHOLOMIA Grote

- L. NAPAEA Morr. (2215). Bar Harbor, Apr. 20-26; Narrows, Oct. 14, flying.

LITHOMOIA Hübner

- L. SOLIDAGINIS Hbn. (2216). Penikese at light; N. E. Harbor (Minot), Sept. 1-29.

GRAPTOLITHA Hübner

- G. BETHUNEI G. & R. (2220). Bar Harbor, Sept. 10, Apr. 27-May 10 (Br.).
G. INNOMINATA Sm. (2221). Bar Harbor, Aug. 26-Oct. 10, May 5-11 (Br.).
G. PETULCA Grt. (2222). Mt. Desert, Aug. 29-Oct. 9 (Br.). It webs white birch.
G. FERREALIS Grt. (2223). Mt. Desert, Sept. 9-23, May 7 (Br.).
G. DISPOSITA Morr. (2225). Penikese and Corfield at light, June 3-6.
G. TEPIDA Grt. (2241). Bar Harbor, May 8 (Br.).
G. GEORGII Grt. (2244). Bar Harbor, July 21-Aug. 30 (Br.).
G. LATICINEREA Grt. (2245). Bar Harbor, Apr. 23 (Br.).
G. CINEROSA Grt. (2246). Bar Harbor, Oct. 13 (Br.).
G. UNIMODA Lint. (2247). Bar Harbor, Apr. 28 (Br.).
G. FAGINA Morr. (2248). Bar Harbor, Apr. 30 (Br.); Corfield at light, Oct. 11.
G. PEXATA Grt. (2252). Bar Harbor May 1-10 (Br.).
G. THAXTERI Grt. (2258). Reared from *Myrica gale*, Sept. 20 (Br.).

XYLENA Ochsenheimer

- X. NUPERA Lint. (2259). Mt. Desert, Apr. 30 (Br.). Corfield at light, Sept. 16.
X. CURVIMACULA Morr. (2260). Bar Harbor, Sept. 27, May 1-June 4 (Br.).
X. CINERITIA Grt. (2263). Bar Harbor, Apr. 30-May 4 (Br.).

XYLOTYPE Hampson

- X. CAPAX G. & R. (2265). N. E. Harbor (Minot), Sept. 1-24.
X. ACADIA B. & B. (2266). Bar Harbor, Sept. 24; Bar Harbor, Aug. 3 (Br.). A recently described species. Few in collections. Rare.

PLATYPOLIA Grote

- P. ANCEPS Steph. (2268). Reared from broad-leaved aster. (*A. macrophyllus*). Sept. 23-Oct. 22 (Br.); Corfield at light, Oct. 1.

FISHEA Grote

- F. ENTHEA Grt. (2283). Bar Harbor, Sept. 23-Oct. 6 (Br.).

ANYTUS Grote

- A. PRIVATA Wlk. (2285). Penikese at light, Aug. 13-Sept. 11; Bar Harbor, Aug. 24-Oct.
A. PROFUNDA TELTOWA Sm. (2288a). Bar Harbor, Aug. 31-Sept. 6 (Br.).

HARPAGLAEA Hampson

- H. SERICEA Morr. (2289). Bar Harbor, Sept. 26 (Br.).
H. PASTILICANS MORR. (2291). Bar Harbor, Sept. 20-25.

EPIGLAEA Grote

- E. APIATA Grt. (2294). Eden, Aug; Penikese at light; Bar Harbor, Sept.

METAXAGLAEA Franclemont

- M. INULTA Grt. (2296). N. E. Harbor, Sept. 24 (Minot); Bar Harbor, Sept. 19.

PYREFERRA Franclemont

- P. HESPERIDAGO Gn. (INDIRECTA Wlk.) (2299). Bar Harbor, Sept. 27, 1932 (Br.).

EUPSILIA Hübner

- E. TRISTIGMATA Grt. (2303). Bar Harbor, Oct. 30 (Br.).
E. SIDUS Gn. (2304). Bar Harbor, Apr. 16-19 (Br.); Corfield, Oct. 16. Larva feeds on various low plants.
E. WALKERI Grt. (2304). Has the white reniform while *sidus* has the red. Both forms look a lot different after overwintering as adults. This is why I have added it as a form. Apr. 25-Nov. 12.
E. MORRISONI Grt. (2305). Bar Harbor, Oct. 3-30 (Br.).
E. DEVIA Grt. (2306). Bar Harbor, Apr. 26-May 13 (Br.).

PARASTICTIS Hübner

- P. DISCIVARIA Wlk. (2309). Bar Harbor, Aug. 6-18 (Br.).

RUSINA Stephens

- R. BICOLORAGO Gn. (2312). Mt. Desert, Sept. and Oct. Common.

XANTHIA Oechsenheimer

- X. LUTEA Strom. (2316). N. E. Harbor; Corfield at light, Aug. 7-Sept. 27.

ANATHIX Franclemont

- A. RALLA G. & R. (2317). N. E. Harbor (Minot); Bar Harbor (Br.), Aug. 11-Sept. 27.
A. PUTA G. & R. (2318). Bar Harbor, Aug. 23-Sept. 9 (Br.).

EUCIRRHOEDIA Grote

- E. PAMPINA Gn. (2321). Echo Lake; Penikese at light; Western Mt.; Corfield, July 7-Sept. 13.

HOMOGLAEA Morrison

- H. HIRCINA Morr. (2324). Bar Harbor, Apr. 20-27 (Br.).

SEPTIS Hübner

- S. VERBASCOIDES* Gn. (2328). Bar Harbor, July 5–Aug. 6 (Br.).
- S. NIGRIOR* Sm. (2329). Eden, middle of Aug.
- S. LIGNICOLORA* Gn. (2335). S. W. Harbor; Penikese at light, July 20–23.
- S. VULTUOSA* Grt. (2344). S. W. Harbor (Mrs. Palmer).
- S. ARTICA* Frr. (2351). Common, July 8–Sept. 10. The larva is one of the destructive cutworms.
- S. ALIA* Gn. (2353). Eden, Aug. 9.
- S. ALIA* form *RORULENTA* Sm. (2353). Bar Harbor, July 21 (Br.).
- S. INORDINATA* Morr. (2355). Corfield and Penikese at light, June 23–Aug. 5.
- S. IMPULSA* Gn. (2362). Bar Harbor, July 18 (Br.).
- S. INDOCILIS* Wlk. (2364). Bar Harbor, Aug. 2 (Br.).
- S. FINITIMA* Gn. (2365). Corfield at light, July 1–22.

AGROPERINA Hampson

- A. LATERITIA* Hufn. (2366). Corfield, July 13; Bar Harbor, June 30–July 6 (Br.). General but scarce.
- A. DUBITANS* Wlk. (2368). S. W. Harbor; Eden, N. E. Harbor, July 10–Sept. 4.
- A. DUBITANS* *COGITATA* Sm. (2368a). S. W. Harbor; Eden, N. E. Harbor, July 10–Sept. 4.

CRYMODES Guenée

- C. DEVASTATOR* Brace (2375). The Glassy Cutworm. Common, July 20–Aug. 15. The larva is one of the destructive cutworms.
- C. DEVASTATOR* Brace form *SPECIOSA* Morr. (2375). Aug. 20 (Br.). Not common.

LUPERINA Boisduval

- L. STIPATA* Morr. (2387). N. E. Harbor (Minot); Bar Harbor, Aug. 17–23; Penikese at light, July 31–Sept. 12.

OLIGIA Hübner

- O. MODICA Gn. (2412). Eden; N. E. Harbor, Aug. 7-30.
O. BRIDGHAMI G. & R. (2420). N. E. Harbor; Penikese at light, Aug. 3-17; Bar Harbor, July 25-Sept. 12, and reared from *Myrica* (Br.).
O. MINUSCULA Morr. (2421). Bar Harbor, July 9-Sept. 11. Rare.
O. DIVERSICOLOR Morr. (2422). Bar Harbor (Br.): Penikese at light, Aug. 23-Sept. 15.
O. ILLOCATA Wlk. (2423). N. E. Harbor (Minot); Bar Harbor, Aug. 23-Sept. 27.
O. MACTATA Gn. (2424). N. E. Harbor (Minot); Bar Harbor, (Br.), Aug. 24-Sept. 6.
O. FRACTILINEA Grt. (2426). Bar Harbor, Aug. 5-8 (Br.).
O. FRACTILINEA Grt. form VULGIVAGA Morr. (2426). Bar Harbor, at light, Aug. 3-18.

EREMOBINA McDunnough

- E. CLAUDENS Wlk. (2430). Bar Harbor, Aug. 24-Sept. 2 (Br.).

XYLOMOIA Staudinger

- X. CHAGNONI B. & McD (2434). Great Head, Aug. 1940 (Mrs. Effie Anthony).

ARCHANARA Walker

- A. OBLONGA Grt. (2439). Bar Harbor, Sept. 17 (Br.).

HYPOCOENA Hampson

- H. INQUINATA Gn. (2448). Eden, early Aug.

IPIMORPHA Hübner

- I. PLEONECTUSA Grt. (2453). Penikese; Bar Harbor, Aug. 3-26. Reared from poplar.

HELIOTROPHA Lederer

R. RENIFORMIS Grt. (2457). Bar Harbor, Aug. 16 (Br.).

This is the typical or light form. The dark form is *atra*.

H. RENIFORMIS form ATRA Grt. (2457). Bar Harbor, Aug. 16-Sept. 10 (Br.).

APAMEA Ochsenheimer

A. VELATA Wlk. (2458). N. E. Harbor, July 22 (Minot); Bar Harbor, July.

A. AMERICANA Speyer (2459). Common, Aug. 15-Sept. 15. The larva bores into various grasses.

A. INTEROCEANICA Sm. (2460). Bar Harbor, Aug. 24-Sept. 23.

HYDROECIA Guenée

H. IMMANIS Gn. (2473). The larvae lives in the shoots and stems of hops and the adults appear in Aug., Penikese.

H. MICACEA Esp. (2474). Penikese at light, Aug. 13-Sept. 6.

PAPAPEMA Smith

P. INQUAESITA G. & R. (2481). Bar Harbor, Sept. 14-27 (Br.).

P. MARGINIDENS Gn. (2484). Bar Harbor (Br.); Penikese at light, Sept. 3-23.

P. LYSIMACHIAE Bird (2508). Mt. Desert, Sept. 9-17 (Br.).

P. PTERISI Bird (2509). Corfield and Penikese at light, Sept. 1-Oct. 12.

P. FRIGIDA Sm. (2521). Corfield at light, Oct. 6. The larvae feed upon meadow-rue (*Thalictrum polygamum*).

EUFLEXIA Stephens

E. BENESIMILIS McD. (2533). N. E. Harbor, June 26 (Minot); Corfield and Penikese at light, July 3-9. The larva feeds on birch, *Viburnum*, etc.

PHLOGOPHORA Treitschke

- P. IRIS Gn. (2535). Corfield and Penikese at light, May 31–June 27. Not a common moth.
- P. PERICULOSA Gn. (2536). N. E. Harbor, Aug. 13–19 (Minot); Corfield and Penikese at light, Aug. 9–13.
- P. PERICULOSA form V-BRUNNEUM Grt. (2536). N. E. Harbor; Eden; Corfield at light, Aug. 1–19.

HAPLOOPIUS Butler

- H. MOLLISSIMA Gn. (2539). Bar Harbor, July 21, 1938 (Br.).

EUCHERRICHA Grote

- E. MONETIFERA Gn. (2540). S. W. Harbor; Eden, June 21–Aug. 9; Corfield at light, July 13–Aug. 3.

MACRONOCTUA Grote

- M. ONUSTA Grt. (2546). The Iris Borer. Bar Harbor (Br.); Penikese at light, Sept. 18–Oct. 9.

CHYTONIX Grote

- C. PALLIATRICULA Gn. (2554). The Cloaked Marvel. Bar Harbor, July 2 (Br.). Favors oak.
- C. PALLIATRICULA Gn. form IASPIS Gn. (2554). N. E. Harbor, July 12 (Minot).

LEUCONYCTA Hampson

- L. DIPHTEROIDES Gn. (2576). N. E. Harbor (Minot); Penikese at light, June 22–Aug. 18.
- L. LEPIDULA Grt. (2577). N. E. Harbor (Minot); Corfield at light, July 4.

AGRIPODES Hampson

- A. FALLAX H.-Sch. (2578). S. W. Harbor; N. E. Harbor (Minot), July 15–30; Corfield and Penikese at light, July 23–25. The larva feeds on poplar and *Viburnum*.

AMPHIPYRA Ochsenheimer

- A. PYRAMIDOIDES Gn. (2584). The Copper Underwing. Corfield at light, Aug. 25–Oct. 11. The larva feeds on wild cherry, apple, poplar, etc.
- A. TRAGOPOGINIS Linn. (2585). Bar Harbor (Br.); N. E. Harbor (Minot), Aug. 8–21.

DIPTERYGIA Stephens

- D. SCABRIUSCULA Linn. (2587). Penikese at light, July 20.

DELTA Saalm

- D. RAMOSULA Gn. (2589). Corfield, June 14; N. E. Harbor; Bar Harbor (Br.), June 14–Sept. 22.

ANDROPOLIA Grote

- A. CONTACTA Wlk. (2596). Bar Harbor, Aug. 1 (Br.).

HYPPA Duponchel

- H. XYLINOIDES Gn. (2607). A common species abundant in spring and remains all summer. The larva is a blueberry feeder in this region.

PLATYSENTA Grote

- P. VIDENS Gn. (2613). Bar Harbor, Aug. 6 (Br.).

ELAPHRIA Hübner

- E. VERSICOLOR Grt. (2645). Corfield at light, June 28, '36. Rare. Has been bred from spruce.
- E. FESTIVOIDES Gn. (2647). N. E. Harbor; June 7–29; Bar Harbor (Br.), June 27–July 6.

PLATYPERIGEA Smith

- P. MULTIFERA Wlk. (2655). N. E. Harbor, Aug. 18–Sept. 5. (Minot); Bar Harbor, Aug. 18–28 (Br.). Penikese at light Aug. 27.

PROXENUS H. S.

P. MIRANDA B. & McD. (2662). Bar Harbor, July 10 (Br.).

GALGULA Guenée

G. PARTITA GIL. (2666). Corfield at light, June 12–Aug. Sexual color difference, the female being dark and the male light.

BALSA Walker

B. MALANA Fitch. (2669). Bar Harbor, June 22–Aug. 17. The larva feeds on apple.

B. LABECULA GRT. (2671). Penikese and Corfield at light, July 7–9.

PRODENIA Guenée

P. ORNITHOGALLI GIL. (2678). The Cotton Cutworm. Bar Harbor, Aug.

P. ORNITHOGALLI form EUDIOPTA GIL. (2678). Bar Harbor, Aug. 18–28 (Br.).

LAPHYGAMA Guenée

L. FRUGIPERDA S & A (2682). Fall Army Worm. Bar Harbor, Aug. 7–31 (Br.). Variable in markings. Feeds on garden crops, timothy, etc., in the late summer. It is not the true Army Worm.

L. FRUGIPERDA S & A form OBSCURA RILEY (2682). Bar Harbor, Aug. 5–Sept. 6.

MAGUSA Walker

M. ORBIFERA Wlk. (2684). Bar Harbor, Aug. 6 (Br.).

ENARGIA Hübner

E. DECOLOR Wlk. (2685). Bar Harbor, July 14–Sept. 11.

COSMIA Ochsenheimer

C. CANESCENS Behr (2687). Corfield and Penikese at light, Aug. 18-20.

C. CANESCENS form ORINELLA Strand. (2687). Bar Harbor, July 30 (Br.).

AMOLITA Grote

A. FESSA Grt. (2694). Bar Harbor, July 10-19 (Br.).

BELLURA Walker

B. GORTYNOIDES Wlk. (2708). Hulls Cove (Br.). Larva taken crawling over yellow water lily. Larva determined by S. E. Crumb.

ACHATODES Guenée

A. ZEAE Harr. (2711). Bar Harbor, Aug. 10 (Br.). The larva is a stem feeder of elder (*Sambucus*) and cornstalks. Common south but scarce here.

PYRRHIA Hübner

P. UMBRA Hufn. form EXPRIMENS Wlk. (2715a). Bred from rosebud, June 17-21 and larkspur, July (Br.); Corfield at light, July 7.

EUTRICOPIS Morrison

E. NEXILIS Morr. (2871). Bar Harbor, May 18 (Br.).

HELIOTHIS Ochsenheimer

H. OBSOLETA Fab. (2932). The Corn Ear-worm. Mt. Desert, Aug.-Oct. 7 (Br.). Penikese at light, Aug.

H. OBSOLETA form UMBROSA Grt. (2932). Bar Harbor, Sept.

RHODOPHORA Guenée

R. FLORIDA Gn. (2941). Primrose Moth. Eden, July 17. The larva feeds on the buds and seed capsules of the evening primrose.

SCHINIA Hübner

S. NUNDINA Dru. (2990). Bar Harbor, July 30-Aug. 15.

S. ARCIGERA Gn. (3018). Bar Harbor, Aug. 12-Sept. 25.

CRYPHIA Hübner

C. PERVERTENS B. & McD. (3099). Mt. Desert, July 9-20 (Br.).

EXYRA Grote

E. ROLANDIANA Grt. (3016). Southwest Harbor, July 18.

ERASTRIA Ochsenheimer (*Lithacodia* Grt.)

E. BELLICULA Hbn. (3117). Station F204, July 2.

E. MUSCOSULA Gn. (3118). Salisbury Cove; N. E. Harbor, Aug. 7-15. Bar Harbor, July 1-Aug. 15.

E. ALBIDULA Gn. (3119). S. W. Harbor; Eden, June 21-Aug. 7.

E. CONCINNIMACULA Gn. (3122). N. E. Harbor (Minot); Corfield at light; Bar Harbor (Br.), June 10-Sept. 5.

E. CARNEOLA Gn. (3124). Bar Harbor; Eden, June 11-Aug. 7.

NEOERASTRIA McDunnough

N. APICOSA Haw. (3126). N. E. Harbor, July 24 (Minot).

CAPIS Grote

C. CURVATA Grt. (3129). Bar Harbor (Br.); Corfield at light, July 6-20.

TARACHIDIA Hampson

T. CANDEFECTA Hbn. (3176). Mt. Desert, July 20-Aug. 25.

MARATHYSSA Walker

M. INFICITA Wlk. (3233). N. E. Harbor, July 13 (Minot). Bar Harbor, July 11-Sept. 18.

CHARACOMA Walker

C. NILOTICA Rog. (3234). Bar Harbor, June 30-Sept. 5.

SARROTHRIPUS Curtis

S. REVAYANA Scop. (3235). Corfield, July 20. Scarce.

BAILEYA Grote

B. OPTHALMICA Gn. (3239). Corfield at light, June 27. Scarce.

AUTOGRAPHA Hübner

- A. MONTANA Pack. (3246a). Bar Harbor, July 4 (Br.). A very rare form with few specimens in collections.
- A. FALCIFERA Kby. (3252). The Celery Looper. Penikese at light, May 25; Bar Harbor, May 16–June 26.
- A. FALCIFERA Kby. form SIMPLEX Gn. (3252). The Celery Looper. Eden; Narrows, Bar Harbor, Penikese at light, July 30. Witch Hole Pond, July 30–Sept. 20.
- A. RECTANGULA Kby. (3254). N. E. Harbor (Minot); Penikese and Corfield at light, July 15–Aug. 15.
- A. ALIAS Ottol. (3257). Corfield and Penikese at light, July 13–Aug. 6. Reared from spruce (Br.).
- A. OCTOSCRIPTA Grt. (3260). S. W. Harbor, July 29; Bar Harbor (Br.); Corfield at light, July 29–Aug. 6.
- A. OCTOSCRIPTA form VARIANA Ottol. (3260b). Bar Harbor, July 6–12 (Br.).
- A. EPIGAEA Grt. (3264). Corfield at light, July 13; Bar Harbor, July 17–Sept. 20.
- A. AMPLA Wlk. (3265). Echo Lake; N. E. Harbor (Minot), July 17–Aug. 11; Penikese at light, June 30–July 3.
- A. SELECTA Wlk. (3266). N. E. Harbor, Aug. 29 (Minot); Bar Harbor, July 27 (Br.). Scarce.
- A. BRASSICAE Riley (3269). Bar Harbor, July 21–Aug. 19 (Br.).
- A. PUTNAMI Grt. (3273). Narrows; Bar Harbor (Br.), June 9–Sept. 21.
- A. CONTEXTA Grt. (3275). S. W. Harbor, July 10–15.
- A. OXYGRAMMA Geyer (3277). Bar Harbor, Sept. 19 (Br.).
- A. BILOBA Steph. (3279). Bar Harbor (Br.), Corfield at light, July 28–30; Bar Harbor, July 19–Sept. 30.
- A. oo Cram. (3280). Bar Harbor, Sept. 17–Oct. 13 (Br.).
- A. PRECATIONIS Gn. (3281). N. E. Harbor, Aug. 13–24 (Minot); Corfield at light, June 6–Aug. 4. A general feeder on weeds.

- A. BIMACULATA Steph. (3285). N. E. Harbor, July 31–Aug. 11 (Minot; Bar Harbor, Aug. 8.
A. MAPPA G. & R. (3286). N. E. Harbor, Aug. 24 (Minot); Bar Harbor, July 19 (Br.).
A. FLAGELLUM Wlk. (3291). Bar Harbor, July 12–19 (Br.). northern form from the Canadian northwest and rare in collections.
A. ALBAVITTA Ottol. (3293). Penikese, Aug. 23. Scarce.

PLUSIA Ochsenheimer

- P. AEREOIDES Grt. (3295). N. E. Harbor; Penikese, July 7–Sept. 4. The larva feeds on *Spirea*.
P. BALLUCA Geyer. (3297). N. E. Harbor, July 26–31 (Minot); Penikese at light, July 19–31; Bar Harbor, Aug. 15.

EOSPHOROPTERYX Dyar

- E. THYATYROIDES Gn. (3300). N. E. Harbor (Minot); Bar Harbor (Br.), Aug. 14.

PALAEOPLUSIA Hampson

- P. VENUSTA Wlk. (3304). Corfield at light, July 20.

CHRYSANYPHA Grote

- C. FORMOSA Grt. (3305). N. E. Harbor, July 31 (Minot); Bar Harbor, July 7–20. Rare.

CATOCALA Schrank

- C. ANTINYMPHA Hbn. (3316). N. E. Harbor (Minot); Penikese at light; Section 30 sugaring, July 19–Sept. 10.
C. COELEBS Grt. (3317). Bar Harbor (Br.); Section 20, sugaring, Aug. 1–10.
C. COELEBS form PHOEBE Hy. Edw. (3317). Bar Harbor, Aug. 10 (Br.).
C. SUBNATA Grt. (3338). Bar Harbor, Aug. 10 (Br.).
C. ILIA Cram. (3342). Witch Hole and Corfield sugaring, Aug. 6–10.

- C. ILIA form CONSPICUA Worth (3342). Bar Harbor (Br.).
 C. ILIA form NORMANI Bartsch (3342). Bred in July (Br.).
 C. CEROGAMA Guen. (3343). N. E. Harbor, Aug. 15.
 C. RELICTA Wlk. (3344). Witch Hole Pond sugaring, Aug. 5.
 The larva feeds on birch and poplar.
 C. RELICTA form PHRYNIA Hy. Edw. (3344). Bar Harbor,
 Sept. 4 (Br.).
 C. RELICTA form CLARA Beut. (3344). Witch Hole Pond sugaring,
 Aug. 5.
 C. UNIJUGA Wlk. (3346). S. W. Harbor (Alexander); Cor-
 field and Witch Hole Pond sugaring, Aug. 5–Sept. 5.
 C. UNIJUGA form AGATHA Beut. (3346). Bar Harbor, Sept. 5
 (Br.).
 C. PARTA Gn. (3347). Mt. Desert, Aug. and Sept. (Br.).
 C. BRISEIS Edw. (3357). Bar Harbor, Aug. 4 (Br.).
 C. SEMIRELICTA Grt. (3361). Bar Harbor, Aug. 19 (Br.).
 C. CONCUMBENS Wlk. (3373). Penikese at light and Section
 30 sugaring, Aug. 1–21.
 C. SORDIDA Grt. (3385). Bar Harbor, July 22; Station F215,
 Sept. 9; Bar Harbor, Aug. 18 (Br.).
 C. SORDIDA form METALOMUS Mayfield (3385). Bar Harbor,
 Aug. 6–17 (Br.).
 C. COCCINATA Grt. (3389). Bar Harbor at light and bait,
 Aug. 7–25 (Br.).
 C. ULTRONIA form CELIA Hy. Edw. (3395). The larva feeds on
 apple, plum, wild cherry, etc. July and Aug.
 C. CRATAEGI Saund. (3396). Penikese at light, Aug. 9.
 C. PRAECLARA G. & R. (3399). Bar Harbor, Sept. 6.
 C. BLANDULA Hlst. (3401). Bar Harbor, Penikese at light,
 Aug. 4–9.
 C. AMICA race LINEELLA Grt. (3412a). Bar Harbor, Aug. 18
 (Br.).

EUPARTHENOS Grote

- E. NUBILIS Hbn. (3414). Bar Harbor; Penikese, June 11–
 July 25. The larva feeds on locust.
 E. NUBILIS form FASCIATA Beut. (3414). Bar Harbor, June 20
 (Br.). Penikese at light, June 20–July 7.

PARALLELIA Hübner

P. BISTRIARIS Hbn. (3422). N. E. Harbor; Green Mt.; Corfield; Penikese, June 3–Aug. 8. The larva feeds on maple.

EUCLIDINA McDunnough

E. CUSPIDEA Hbn. (3426). Penikese in June.

CAENURGINA McDunnough

C. CRASSIUSCULA Haw. (3430). Common, July–Aug. The larva feeds on grasses.

C. ERECTEA Cram. (3431). July–Aug. The larva feeds on grasses, clover, etc.

PTICHODIS Hübner

P. VINCULUM Gn. (3439). Record of capture lost.

DORYODES Guenée

D. BISTRALIS Geyer (3460). Penikese at light, July 19.

ZALE Hübner

Z. LUNATA Dru. (3474). Bar Harbor, Oct. 7 (Br.).

Z. AERUGINOSA Gn. (3480). Corfield at light, June 22.

Z. MINEREA form *NORDA* Sm. (3484a). Penikese and Corfield at light, May 30.

Z. DUPLICATA Beth. (3490). Penikese at light; Bar Harbor May 18–June 10.

Z. HORRIDA Hbn. (3501). Sparingly at light in June.

EREBUS Latreille

E. ODORA Linn. (3525). The Black Witch. A large tropical form which sometimes strays north. One seen at bait, Corfield, Aug. 1 and one female taken at bait, Norway Drive, Aug. 2, which is a record for this part of the U. S. The larvae live on papilionaceous trees.

SYNEDOIDA H. Edwards

S. ADUMBRATA ALLENI Grt. (3578b). Bar Harbor, June 23–July 18.

ANTICARSIA Hübner

A. GEMMATILIS Hbn. (3590). Velvet Bean Caterpillar. Bar Harbor, June 16 (Br.).

CALPE Treitschke

C. CANADENSIS Bethune (3608). Bar Harbor (Br.); Corfield at light, July 6–20. A northern form.

SCOLIOPTERYX Germar

S. LIBATRIX Linn. (3615). Bar Harbor, Aug. 5–Sept. 26 (Br.). Penikese at light, April 29–June 22. The larva feeds on willow and poplar. A very widely distributed insect.

ALABAMA Grote

A. ARGILLACEA Hbn. (3616). The Cotton-worm Moth. Ranges from Argentina to Canada and sometimes migrates in swarms. Common in September.

PANGRAPTA Hübner

P. DECORALIS Hbn. (3650). Comon, June 18–Aug. 7. The larvae of this small moth feeds on blueberry, etc.

METALECTRA Hübner

M. DISCALIS Grt. (3651). Bar Harbor, July 10 (Br.).
M. QUADRISIGNATA Wlk. (3652). N. E. Harbor, July 10–Aug. 24 (Minot); Bar Harbor, July 10–22.

SPARGALOMA Grote

S. SEXPUNCTATA Grt. (3684). Bar Harbor, July 6 (Br.).

BOMOLOCHA Hübner

- B. BALTIMORALIS Gn. (3688). N. E. Harbor (Minot); Corfield at light, July 13–Aug. 15. The larva feeds on maple. I have a specimen taken by Dr. Fernald on May 25, 1867.
B. PALPARIA Wlk. (3690). Bar Harbor, July 6 (Br.).
B. DECEPTALIS Wlk. (3692). S. W. Harbor; Eden, July 28–Aug. 25.
B. TOREUTA Grt. (3698). N. E. Harbor, June 26 (Minot).
B. CITATA Grt. (3701). Oct. 16 (Br.). Scarce.

LOMANALTES Grote

- L. EDUCTALIS Wlk. (3703). N. E. Harbor (Minot); Bar Harbor, Aug. 13 (Br.); Corfield at light, May 30–July 11.

PLATHYPENA Grote

- P. SCABRA Fab. (3705). Bar Harbor, July 26–Oct. 8. The larva feeds on clover, beans, and other legumes.

HYPENA Schrank

- H. HUMULI Harr. (3706). Penikese at light, Aug. 10–27.

DYSPYRALIS Warren

- D. ILLOCATA Warr. (3716). Bar Harbor, July 30 (Br.).

MENOPSIMUS Dyar

- M. CADUCUS Dyar (3728). S. W. Harbor bog and Bar Harbor, July 27–Aug. 8 (Br.). Our smallest noctuid.

RIVULA Guenée

- R. PROPINQUALIS Gn. (3732). N. E. Harbor; Bar Harbor; Penikese, July 17–Aug. 7.

CAMPTYLOCHILA Stephens

- C. AMERICALIS* Ghl. (3734). N. E. Harbor; Eden; Paradise Hill at light, July 3–Aug. 25. The larva feeds on clover.
- C. AEMULA* Hbn. (3735). N. E. Harbor; Eden; Paradise Hill, July 30–Aug. 10. The larva is said to feed on spruce and the adult on the sap. Inhabits woods. Common.
- C. ROTUNDALIS* Wlk. (3737). Mt. Desert, July 18–Aug. 19.
- C. JULIA* B. & McD. (3739). Bar Harbor, Aug. 10 (Br.).
- C. DIMINUENDIS* B. & McD. (3740). Bar Harbor, Aug. 7 (Br.).
- C. LUBRICALIS* Geyer. (3746). N. E. Harbor; Eden, July 14–Aug. 1. The larva feeds on grasses. Common.

PHALAEOPHANA Grote

- P. PYRAMUSALIS* Wlk. (3750). N. E. Harbor (Minot); Penikese at light, June 20–July 16.

EPIZEUXIS Hübner

- E. LITURALIS* Hbn. (3752). Bar Harbor, July (Br.).
- E. THERALIS* Wlk. (3753). Bar Harbor, July 18 (Br.).
- E. INCONSPICUALIS* Grt. (3755). Bar Harbor (Br.); Corfield at light, July 7–Aug. 18. Scarce.
- E. PEDIPILALIS* Gn. (3759). Corfield at light, June 22.
- E. PROTUMNUSALIS* Wlk. (3760). Bar Harbor, August 1 (Br.).
- E. JACCHUSALIS* Wlk. (3763). Mt. Desert, July 22 (Br.).
- E. OCHREIPENNIS* Grt. (3764). N. E. Harbor; Eden; Corfield at light, July 1–Aug. 1.

CHYTOLITA Grote

- C. PETREALIS* Grt. (3767). N. E. Harbor (Minot); Bar Harbor; Penikese at light, June 28–July 4.

PHILOMETRA Grote

- P. METONALIS* Wlk. (3770). Echo Lake; N. E. Harbor; Eden; Bar Harbor, July 4–Aug. 5.
- P. HANHAMII* Sm. (3772). Bar Harbor, July 23 (Br.).

HORMISA Walker

- H. ABSORPTALIS Wlk. (3773). N. E. Harbor; Salisbury Cove; Bar Harbor, July 8-23.
H. ORCIFERALIS Wlk. (3776). Mt. Desert, July 11-23 (Br.).
A southern species.

RENIA Guenée

- R. FACTIOSALIS Wlk. (3783). Mt. Desert, Aug. 1-15 (Br.).
R. FLAVIPUNCTALIS Geyer. (3789). Eden; Bar Harbor (Br.), July 25-Aug. 7.
R. ATRIMACULA Sm. (3791). Bar Harbor (Br.), Aug. 16.
R. SOBRIALIS Walk. (3793). Bar Harbor, July 20-Aug. 18.

BLEPTINA Guenée

- B. CARADRINALIS Gn. (3797). Eden; Bar Harbor, June 28-Aug. 5.

PALTHIS Hübner

- P. ANGULALIS Hbn. (3807). Bar Harbor; Echo Lake; Corfield at light; Bar Harbor, June 10-July 12.

NOTODONTIDAE

ICHTHYURA Hübner

- I. APICALIS Wlk. (3822). Corfield and Penikese at light, June 22-July 11; Bar Harbor, Aug. 2-5 (Br.).
I. STRIGOSA Grt. (3826). Bar Harbor, June 16-July 2.
I. ALBOSIGMA Fitch. (3827). Penikese at light, May 23-25; Bar Harbor, June 8-Aug. 8, at light.

DATANA Walker

- D. MINISTRA Dru. (3829). Yellow-necked apple-worm. The larvae are gregarious and appear in August.
D. DREXELI Hy. Edw. (3831). July 31.

HYPERAESCHRA Butler

- H. STRAGULA Grt. (3843). Bar Harbor, July 22 (Br.). Rare.

ODONTOSIA Hübner

O. ELEGANS Stkr. (3847). Mt. Desert, July 6–24 (Br.). Rare.

NOTODONTA Ochsenheimer

N. BASITRIENS Wlk. (3849). Bar Harbor, July 7 (Br.).

N. SIMPLARIA Graef. (3850). Bar Harbor, July 29–Aug. 10.

PHEOSIA Hübner

P. RIMOSA Pack. (3851). Bar Harbor; N. E. Harbor (Minot); Corfield and Penikese at light, July 10–Aug. 23. The larva feeds on poplar.

LOPHODONTA Packard

L. FERRUGINEA Pack. (3853). N. E. Harbor (Minot); Bar Harbor, July 1–Aug. 14 (Br.); Penikese at light, July 10–19. The larva feeds on oak, maple, linden, etc.

L. ANGULOSA A. & S. (3854). Penikese at light, June 23–July 19; Bar Harbor, July 12–Aug. 7 (Br.). The larva feeds on oak.

NADATA Walker

N. GIBBOSA A. & S. (3857). Corfield and Penikese at light, June 21–July 7. A variable and widely described species which has tempted varietal descriptions.

SYMMERISTA Neumoesen and Dyar

S. ALBIFRONS A. & S. (3859). N. E. Harbor (Minot); Penikese at light, June 28–July 20. The larva feeds on oak, maple, etc.

DASYLOPHIA Packard

D. ANGUINA A. & S. (3880). Penikese at light, July 15. The larva feeds on locust.

D. THYATIROIDES Wlk. (3881). Bar Harbor, July 12 (Br.).

HETEROCAMPA Doubleday

- H. UMBRATA Wlk. (3902). Mt. Desert, June 30–July 11 (Br.). Rare.
- H. BIUNDATA Wlk. (3906). Penikese at light; Bar Harbor, July 2–Aug. 12.
- H. GUTTIVITA Wlk. (3907). Northeast Harbor, June 26 (Minot); Bar Harbor (Br.), June 26–July 2. The larva is popularly known as the “saddle prominent” and is often injurious to maples and poplars.

FENTONIA Butler

- F. MARTHESIA Cramer (3910). Penikese at light, June 21–Aug. 13. Not common.

DICENTRIA H. S.

- D. LIGNICOLOR Wlk. (3912). Penikese at light, July 17–19; Bar Harbor, July 23–Aug. 22.
- D. SEMIRUFESCENS Wlk. (3919). Bar Harbor (Br.); Penikese at light, July 12–22.

SCHIZURA Doubleday

- S. IPOMOEAE Doubl. (3920). Bar Harbor (Br.); Penikese at light, Aug. 5–8.
- S. IPOMOEAE form CINEREOFRONS Pack. (3920). Bar Harbor, July 15.
- S. CONCINNA A. & S. (3921). The Red-humped Apple-worm. Reared June (Br.). The larva feeds upon *Rosaceae*.
- S. BADIA Pack. (3923). Mt. Desert, July 8–Aug. 1. The larva feeds upon *Viburnum*.
- S. UNICORNIS A. & S. (3924). N. E. Harbor (Minot); Bar Harbor (Br.); July 4–Aug. 23. The larva feeds on orchards, shade trees, and *Rosaceae*.
- S. APICALIS G. & R. (3926). Bar Harbor, July 15.

CERURA Schrank

- C. BOREALIS Bdv. (3933). Bar Harbor, Sept. The larva feeds on willow.
- C. OCCIDENTALIS Lind. (3934). Penikese at light, July 10-12; Bar Harbor, July 22.
- C. CINEREA Wlk. (3935). Bar Harbor, July 2 (Br.). Rare.
- C. MODESTA Hudson (3937). Bar Harbor, Aug. 5 (Br.). Rare.

GLUPHISIA Boisduval

- G. SEPTENTRIONALIS Wlk. (3939). N. E. Harbor (Minot); Bar Harbor (Br.); Penikese at light, June 23-Aug. 19. The larva feeds on willow, poplar and birch.
- G. LINTNERI form AVIMACULA Hudson (3940). Mt. Desert, May 18-23 (Br.).

LIPARIDAE

NOTOLOPHUS Germar

- N. ANTIQUA Linn. (3943). There are some wood roads running in from the west road at about the Mt. Desert-Tremont line where this moth is quite common from the last of September to the middle of October. Have not taken it any other place. The larvae feed on most of the orchard and forest trees. Poplar seems to be the favorite here.

HEMEROCAMPA Dyar

- H. LEUCOSTIGMA A. & S. (3948). White Marked Tussock Moth. Taken at light, Penikese, in small numbers from last week in August to last week in September, '34, '35, '36. The larvae feed on various fruit and shade trees.

OLENE Hübner

- O. ATOMARIA Wlk. (3958). Bar Harbor, July 18-Aug. 8.
- O. ATOMARIA form PARALLELA G. & R. (3958). Bar Harbor, July 14-30 (Br.).

LIPARIS Ochsenheimer

L. DISPAR Linn. (3965). The Gypsy Moth. Reported in 1919 from three different places on the Island but not seen by the writer until August 10, 1933, when one or two individuals were seen at the laboratory and a careful search revealed large numbers. With cooperation the infestation was stamped out by those on whose property it occurred. There have been several infestations since, and the numbers are increasing rapidly. They will soon be a major problem on the Island.

STILPNOTIA Westwood

S. SALICIS Linn. (3966). The Satin Moth. First reported in The vicinity of Boston in 1920. It has gradually spread northeastward, and this is the most northerly record at the present time. Bar Harbor at light, July 31, '35 (Br.). The larvae feeds on poplar and willow.

NYGMIA Hübner

N. PHAEORRHOEA Don. (3967). The Brown-tail Moth. Abundant during 1911-1914. Then a few were seen yearly until 1944, when they appeared in large numbers from the west, necessitating town control.

LASIOCAMPIDAE

TOLYPE Hübner

T. VELLEDA Stoll. (3978). A common form at light in September.

T. LARICIS Fitch. (3987). Penikese at light; Bar Harbor (Br.). July 19-Aug. 30. Not common.

MALACOSOMA Hübner

M. AMERICANA Fab. (3989). The American Tent Caterpillar. Always present. In great numbers '35 and '36 and almost none in '38. Show great variation. The larvae form large tent-like webs on the apple, cherry, and other trees. The caterpillars are heavily parasitized by tachinid flies.

- M. DISSTRIA* Hbn. (3997). The Forest Tent Caterpillar. Generally distributed but in smaller numbers. Among other plants the larva feeds on blueberry.
- M. DISSTRIA* form *SYLVATICA* Harr. (3997). Generally distributed in small numbers. The larvae feed on birch, cherry, poplar, willow, etc.

EPICNAPTERA Rambur

- E. AMERICANA* Harr. (3999). The American Lappet. Bar Harbor (Br.); Penikese at light, May 26–July 16. Has various color forms which are supposed to be local races.

THYATIRIDAE

HABROSYNE Hübner

- H. SCRIPTA* Gosse (4004). Witch Hole Pond sugaring; Corfield at light, May 30–Aug. 6. Scarce.
- H. GLORIOSA* Gn. (4006). Bar Harbor.

PSEUDOTHYATIRA Grote

- P. CYMATOPHOROIDES* Gn. (4007). Bar Harbor, July 17–Aug. 4 (Br.). The larva feeds on birch, maple and oak.
- P. CYMATOPHOROIDES* form *EXPULTRIX* Grt. (4007). N. E. Harbor (Minot); Bar Harbor (Br.), July 2–19. The larva has same food habits as above.

DREPANIDAE

ORETA Walker

- O. ROSEA* Wlk. (4019). N. E. Harbor (Minot); Corfield at light, July 10–Sept. 5. The larva feeds on *Viburnum*.
- O. ROSEA* form *IRRORATA* Pack. (4019). N. E. Harbor, July 10; Bar Harbor (Burton).

DREPANA Schrank

- D. ARCUATA* Wlk. (4020). S. W. Harbor; Corfield, June 2–July 16. The larva is solitary and forms a web. It feeds on birch and alder. This species is dimorphic and this is the summer form.

D. ARCUATA form GENICULA Grt. (4020). N. E. Harbor, July 19 (Minot); Corfield. This is the spring form.

D. BILINEATA Pack. (4021). N. E. Harbor (Minot); Corfield and Penikese at light, May 28–July 19. The larva feeds on birch.

GEOMETRIDAE

BREPFIOS Zinck

B. INFANS Moesch. (4023). Bar Harbor, April 12–May 1 (Br.). This northern form is not common here. The larvae feed upon white birch.

ALSOPHILA Hübner

A. POMETARIA Harr. (4026). Fall Cancer Worm. A serious pest on a large number of plants and shrubs. The females are wingless. Bar Harbor, Nov. 7–22 (Br.).

NEMORIA Hübner

N. MIMOSARIA Gm. (4048). Penikese at light; Bar Harbor, June 7–19.

N. RUBRIFRONTARIA Pack. (4049). Penikese at light, June 18–25. Bar Harbor, June 18–28.

SYNCHLORA Guenée

S. AERATA Fab. (4070). Near Bar Harbor (Burton); Bar Harbor (Br.), July 1–4. The larva feeds on blackberry and raspberry.

S. RUBRIFRONTARIA Pack. (4074). Bar Harbor, June 30–July 25.

CHLORISSA Stephens

C. SUBCROCEATA Wlk. (4088). Rhodora Meadow, June 6 (Br.). Rare.

MESOTHEA Warren

M. INCERTATA Wlk. (4089). Mt. Desert, May 5–20 (Br.). Blueberry is one of the food plants.

CHLOROCHLAMYS Hulst

C. CHLOROLEUCARIA Gn. (4095). Bar Harbor, May 16–Aug. 4.
Common.

SCOPULA Schrank

- S. CACUMINARIA Morr. (4140). Bar Harbor, July 7, 1936
(Br.). A rare form anywhere.
- S. QUADRILINEATA Pack. (4143). Bar Harbor, June 10–July
16.
- S. ENUCLEATA Gn. (4149). Bar Harbor (Br.); Penikese at
light, July 10–Aug. 15. The larva feeds on blueberry,
Rhexia and *Galium*.
- S. ENUCLEATA form MENSURATA Wlk. (4149). Bar Harbor,
Aug. 1 (Br.).
- S. ENUCLEATA form RELEVATA Swett. (4149). Bar Harbor,
July 24 (Br.).
- S. ENUCLEATA form ADORNATA Prout. (4149). Bar Harbor,
July 18 (Br.).
- S. INDUCTA Gn. (4158). Penikese from first week in July to
last of Aug. Corfield, July 25.

STERRHA Hübner

- S. ROTUNDOPENNATA Pack. (4195). Bar Harbor, June 23–28
and S. W. Harbor, June 27.

HAEMATOPIS Hübner

- H. GRATARIA Fab. (4204). Bar Harbor, Aug. 10 (Br.). The
larva feeds on chickweed.

PLEUOPRUCHA Moesch

- P. INSULARIA Gn. (4206). N. E. Harbor, July 20–30 (Minot);
Bar Harbor, June 29–Aug. 10. The larva feeds on oak,
Galium, etc.
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COSYMBIA Hübner

- C. MYRTARIA Gn.? (4209). Record of capture lost.
C. PENDULINARIA Gn. (4211). General and quite common during Aug. The larva feeds upon birch, *Vaccinium* and *Comptonia*.
C. PENDULINARIA form NIGRICARIA Rotke (4211). Bar Harbor, June 5.

ACASIS Duponchel

- A. VIRIDATA Pack. (4221). S. W. Harbor, June 24; Corfield at light, May 30.

NYCTOBIA Hulst

- N. LIMITARIA Wlk.? (4223). Bar Harbor, April 26–May 11.
N. ANGUILINEATA G. & R. (4223.1). Bar Harbor (Br.); Corfield at light, May 11–30.

CLADARA Hulst

- C. ATROLITURATA Wlk. (4225). Mt. Desert, April 4–May 28 (Br.). Frequents woods where in the early spring it may be looked for on stumps.

LOBOPHORA Curtis

- L. NIVIGERATA Wlk. (4226). N. E. Harbor (Minot); Bar Harbor, May 10–Aug. 15.

NEODEZIA Warren

- N. ALBOVITTATA Gn. (4235). N. E. Harbor; Long Pond, June 15–27; Bar Harbor, May 25.

OPOROPHTERA Hübner

- O. BRUCEATA Hlst. (4239). Bar Harbor, Nov. 1 (Br.).

OPORINIA Hübner

- O. HENSHAWI Swett (4243a). Corfield at light; Pretty Marsh, flying in woods, Oct. 3-11.

TRIPHOSA Stephens

- T. AFFIRMARIA Wlk. (4244a). Bar Harbor, May 11-Oct. 10.

CALOCALPE Hübner

- C. UNDULATA Linn. (4247). S. W. Harbor, June 16-July 30; Bred from wild cherry, June 25. The larvae are gregarious, webbing together the leaves on the terminal shoots of the wild cherry.

EUPITHECIA Curtis

- E. MISERULATA Grt. (4266). Station F66, Aug. 21, '29. Bar Harbor, June 3-Aug. 23 (Br.). Pupae under spruce, Bar Harbor, Nov. 11 (Br.).
- E. COLORADENSIS Hlst. (4272). Corfield at light; Bar Harbor, May 31-June 30.
- E. CASTIGATA Hbn. (4276). May 31-July 2 (Br.).
- E. FLETCHERATA Tayl. (4280). Bar Harbor, Aug. 17 (Br.).
- E. PALPATA Pack. (4287). Bar Harbor, July 1 (Br.).
- E. ERPATA Pears.? det. McD. (4288a). Bar Harbor, May 11-19.
- E. SATYRATA Hbn.? (4319). Bar Harbor, June 11 (Br.).
- E. TAYLORATA Swett. (4320). N. E. Harbor; Eden, June 29-Aug. 1.
- E. CHAGNONI Swett (4322). Bar Harbor, June 26 (Br.).
- E. RUSSELLIATA Swett.? (det. McDunnough) (4323). N. E. Harbor (Minot); Bar Harbor, June 22-Aug. 1.
- E. STRATTONATA Pack. (4324). S. W. Harbor, July 21.
- E. GEMINATA Pack. (4331). N. E. Harbor (Minot); Bar Harbor (Br.), Aug. 9-31. The larva feeds on the flowers of the yarrow, goldenrod, etc.
- E. GELIDATA Moesch. (4333). Bar Harbor, Aug. 8.

- E. WINNATA Tyl.? (det. McD.) (4336a). Corfield at light, July 10; Bar Harbor, July 1–Aug. 15.
- E. SOBRINATA Hbn. (4342). Bar Harbor, Aug. 30–Sept. 19.
- E. INTERRUPTOFASCIATA Pack. (4342a). N. E. Harbor; S. W. Harbor; Eden, July 8–Sept. 24. The larva feeds on juniper.
- E. FILMATA Pears. (4348). Bar Harbor, Apr. 26 (Br.).
- E. RAVOCOSTALIATA Pack. (4383). Bar Harbor, Apr. 30–May 10.
- E. ANTICARIA Wlk. (4389). S. W. Harbor; Bar Harbor (Br.); Eden, July 1–18.
- E. sp. There are three separate species taken at Corfield in May and June.

HORISME Hübner

- H. INTESTINATA Gn. (4393). N. E. Harbor; Eden; Bar Harbor (Br.), July 27–Sept. 5.

LYGRIS Hübner

- L. DIVERSILINEATA Hbn. (4401). Bar Harbor; Eden, Aug. 10–Sept. 9. The larva feeds on *Ampelopsis*.
- L. DIVERSILINEATA form GRACILINEATA Gn. (4401). Corfield at light, Sept. 2. This is easily confused with *L. diversiliniata*.
- L. TESTATA Linn. (4403). Bar Harbor (Br.); Middle Road, flying, Aug. 21–Sept. 3. The larva feeds on birch, willow, etc.
- L. DESTINATA Moesch. (4405). Penikese, July 20–30.
- L. EXPLANATA Wlk. (4406). N. E. Harbor; Eden; Station F66; Corfield at light, Aug. 15–20.
- L. EXPLANATA form CUNIGERATA Wlk. (4406). N. E. Harbor, July 31–Aug. 16 (Minot).
- L. XYLINA Hulst. (4407). Mt. Desert, July 24–Aug. 3 (Br.).
- L. SERRATARIA B. & McD. (4408). Aug. 5.

DIACTINIA Warren

- D. ALBOLINEATA Pack. (4410a). Bar Harbor (Br.); N. E. Harbor, Aug. 2–21.

PLEMYRIA Hübner

- P. GEORGI Hbst. (4412). N. E. Harbor (Minot); Penikese at light; Bar Harbor, Aug. 6-26.

DYSSTROMA Hübner

- D. TRUNCATA Hufn. (4413). N. E. Harbor; S. W. Harbor; Eden, July 20-Sept. 8; Bar Harbor, Aug. 17-Sept. 3. The larva feeds on strawberry and alder.
D. CITRATA Linn. (4416). Beech Hill, flying, Sept. 15.
D. HERSILIATA Gn. (4420). Bar Harbor, July 9 (Br.).

THERA Stephens

- T. CONTRACTATA Pack. (4431). N. E. Harbor (Minot), Sept.
T. PROCTERI Brower (4431.1). Type material and locality Mt. Desert Island. This is apparently a rare species as Dr. Brower has been unable to find it in the large eastern collections. Rubbed specimens might be easily confused with *THERA contractata* Packard but the lines bounding the medial band are very irregular and strongly toothed on *procteri* and on *contractata* even or slightly toothed, though they are, usually, angulate. The genitalia are distinct.

HYDRIOMENA Hübner

- H. PLUVIATA Gn. (4477). Bar Harbor, June 13.
H. PERFRACTA Swett. (4478). Record of capture lost.
H. DIVISARIA Wlk. (4484). Bred from pupae found under spruce, June 3-July 2 (Br.).
H. RENUNCIATA Wlk. (4485). Penikese and Corfield at light, May 30-June 23.
H. RUBERATA Freyer (4492). Bar Harbor, May 18 (Br.).

XANTHORHOE Hübner

- X. LACUSTRATA Gn. (4509). N. E. Harbor; Bar Harbor (Br.), Apr. 26; Corfield at light, July 27-Aug. 15. The larva feeds on jewel weed (*Impatiens*).

- X. DESIGNATA EMENDATA Pears. (4511a). Witch Hole Pond; Eden; Corfield, July 30–Aug. 10. The larva feeds on *Cruciferae*, wild and cultivated.
- X. FERRUGATA Clerk. (4516). N. E. Harbor; S. W. Harbor; Corfield, July 15–24. The larva feeds on *Polygonum*.
- X. FERRUGATA form UNIDENTARIA Haw. (4516). N. E. Harbor (Minot); Penikese, July 20–Aug. 10.
- X. IDUATA Gn. (4527). S. W. Harbor, July 10–15. Bar Harbor (Br.), July 10–27.
- X. ABRASARIA CONGREGATA Wlk. (4530a). Bar Harbor, June 29–July 2.

PERCNOPTILOTA Hulst

- P. OBSTIPATA Fab. (4535). N. E. Harbor; S. W. Harbor; Penikese and Corfield at light, June 17–Aug. 15. Larva feeds on elm, *Polygonum*, etc.

ENTEPHRIA Hübner

- E. AURATA Pack. (4540). N. E. Harbor, July 25–Aug. 25. Scarce.

MESOLEUCA Hübner

- M. RUFICILLATA Gn. (4546). N. E. Harbor (Minot); Bar Harbor (Br.), June 7–Aug. 9. The larva feeds on birch.

SPARGANIA Guenée

- S. MAGNOLIATA Gn. (4555). Bar Harbor, July 14–Aug. 16.
- S. LUCTUATA OBDUCTATA Moesch. (4556a). S. W. Harbor, July 16.

EUPHYIA Hübner

- E. INTERMEDIATA Gn. (4558a). N. E. Harbor; Echo Lake; Bar Harbor (Br.), June 30–Aug. 29. The larva feeds on blackberry, birch, etc. A common form from early in the year to Sept. 1.

E. CENTROSTRIGARIA Woll. (4559). Bar Harbor, July 25–Oct. 25.

E. MULTIFERATA Wlk. (4561). N. E. Harbor, June 29–Aug. 5 (Minot). The larva feeds on *Polygonum* and *Epilobium*.

CAMPTOGRAMMA Stephens

C. STELLATA Gn. (4572). Bar Harbor, Sept. 6–10 (Br.).

EULYPE Hübner

E. HASATA Linn. (4573). Echo Lake; Corfield at light, June 15–20; S. W. Harbor bog, June 5.

E. HASTATA Linn. var. (4573). S. W. Harbor, June 5 (Br.).

E. HASTATA var. Different from the one listed, June 5, 1937, Sea Wall Bog (Br.).

E. HASTATA GOTHICATA Gn. (4573a). Common, unusually abundant in 1923. June 13–July 20. The larva feeds on birch, willow, blueberry, etc.

PERIZOMA Hübner

P. BASALIATA Wlk. (4575). Tremont and Bar Harbor, July 17–Aug. 26.

EAROPHILA Gumpenberg

E. VASILIATA Gn. (4587). Bar Harbor, Apr. 28–May 10 (Br.); Corfield at light, May 13–June 15.

VENUSIA Curtis

V. CAMBRICA Curt. (4589). N. E. Harbor; S. W. Harbor; Eden, June 22–Aug. 24. The larva feeds on mountain ash (*Pyrus americana*).

V. COMPTARIA Wlk. (4592). Bar Harbor, May 2–19 (Br.).

HYDRELIA Hübner

H. INORNATA Hbst. (4596). Bar Harbor, July 4–24 (Br.).

EUDULE Hübner

- E. MENDICA Wlk. (4599). Common, June 21–July 26. The larva feeds on violets.

BAPTA Stephens

- B. SEMICLARATA Wlk. (4605). S. W. Harbor, June 25; Bar Harbor, May 15–June 6 (Br.).
B. VESTALIATA Gn. (4606). Jordan Pond; Corfield and Penikese at light, May 27; N. E. Harbor, June 10–July 8. The larva feeds on apple, oak, etc.
B. GLOMERARIA Grt. (4608). Bar Harbor, May–June.

DEILINIA Hübner

- D. VARIOLARIA Gn. (4612). N. E. Harbor; Eden; Bar Harbor, June 20–Aug. 9 (Br.). The larva feeds on willow.
D. ERYTHEMARIA Gn. (4614). N. E. Harbor (Minot); Bar Harbor, June 10–Aug. 8.

ISTURGIA Hübner

- I. TRUNCATARIA Wlk. (4658). Mt. Desert, May 15–June (Br.).

PHYSOSTEGANIA Warren

- P. PUSTULARIA Gn. (4663). N. E. Harbor; Corfield and Paradise Hill at light, July 21–Aug. 11. The larva feeds on maple, cranberry, etc.

PHILOBIA Duponchel

- P. ULSTERATA Pears. (4664). N. E. Harbor, July 12 (Minot); Bar Harbor, July.

SEMIOTHISA Hübner

- S. MINORATA Pack. (4670). Corfield at light, July 6.
S. BISIGNATA Wlk. (4671). Station F192; Corfield at light; Bar Harbor, June 7–July 17.

- S. GRANITATA Gm. (4680). Bar Harbor (Br.); N. E. Harbor; Long Pond; Penikese and Corfield at light, June 9–Aug. 4.
- S. GRANITATA form DISPUNCTA Wlk. (4680c). Mt. Desert, July 20.
- S. OWENI Swett. (4681). Bar Harbor (Br.); Corfield at light, June 22–July 6.
- S. SEXMACULATA Pack. (4687). Bar Harbor, May 28–Aug. 7 (Br.).
- S. CONTINUATA Wlk. (4710). Penikese and Corfield at light, June 22–30. W. T. M. Forbes says, "I believe *orillata* male is the same and the names based on *orillata* male and *continuata* female."
- S. ORILLATA Walk. (4712). Bar Harbor, July 17 (Br.).
- S. MELLISTRIGATA Grt. (4726). Corfield at light; Bar Harbor June 15–Aug. 1.

ITAME Hübner

- I. ARGILLACEARIA Pack. (4748). N. E. Harbor (Minot); Bar Harbor, June 24–July 28 (Br.).
- I. SULPHUREA Wlk. (4751). Corfield at light; Mt. Desert, June 10–Aug. 19. Rare.
- I. FULVARIA Vill. (4752). S. W. Harbor; Witch Hole Pond; Section 28, June 25–July 14.
- I. ANATARIA Swett. (4759). N. E. Harbor; Corfield at light, July 13–Aug. 26.
- I. BITACTATA Wlk. (4771). Bar Harbor, July 18 (Br.).
- I. VIRGINIALIS Hlst. (4785). Bar Harbor, June 11–July 18.

DYSMIGIA Warren

- D. LORICARIA JULIA Hlst. (4797). Mt. Desert, July 2 (Br.).

HESPERUMIA Packard

- H. SULPHURARIA Pack. (4801). Penikese at light; Mt. Desert, July 19–Aug. 23 (Br.). Rare.

EMATURGA Lederer

E. AMITARIA Gn. (4802). S. W. Harbor (Br.): Echo Lake, June 18-22. The larva feeds on bearberry (*Arctostaphylos uva-ursi*).

EUFIDONIA Packard

E. NOTATARIA Wlk. (4803). S. W. Harbor; Corfield, June 16-July 17. The larva feeds on larch, pine, etc. Common.

E. DISCOSPILATA Wlk. (4804). Corfield at light; Bar Harbor (Br.), June 7-July 20.

ORTHOFIDONIA Packard

O. TINCTARIA Wlk. (4805). N. E. Harbor (Minot); Bar Harbor, May 18-July 9 (Br.).

O. TINCTARIA form FLAVIVENATA Hlst. (4805a). Bar Harbor, Apr. 30-May 6 (Br.).

PARAPHIA Guenée

P. UNIPUNCTATA Haw? (4807). Corfield at light; Bar Harbor (Br.), May 30-July 17. Variable in color and markings.

P. SUBATOMARIA Wood. (4809). Bar Harbor, July 6 (Br.). A variable form.

P. PINIATA Pack. (4811). Bar Harbor, Aug. 18 (Br.).

MELANOLOPHIA Hulst

M. SIGNATARIA Wlk. (4857). Corfield at light; Bar Harbor (Br.), May 10-30.

PROTOBOARMIA McDunnough

P. PORCELARIA Gn. (4875). June 27-July 1 (Br.).

P. INDICATARIA Wlk. (4875a). Corfield and Penikese at light, June 27-July 1. Common.

GLENA Hulst

G. COGNATARIA Hbn. (4882). Corfield at light; Bar Harbor (Br.), July 2-11. Blueberry is one of the food plants.

VITRINELLA McDunnough

- V. PAMPINARIA Gn. (4908). Penikese at light; Bar Harbor, June 30–July 15.

ANACAMPTODES McDunnough

- A. LARVARIA Guen. (4912). N. E. Harbor, June 26–July 6 (Minot). The larva feeds on willow, wild cherry, etc.
A. EPHYRARIA Wlk. (4916). Bar Harbor, Aug. 19 (Br.).
A. HUMARIA Gn. (4917). Corfield at light, May 29–June 6.
A. VELIVOLATA Hbst. (4918). Bar Harbor, June 6 (Br.).

AETHALURA McDunnough

- A. ANTICARIA Wlk. (4945). S. W. Harbor; Bar Harbor (Br.), May 12–June 20.

ECTROPIS Hübner

- E. CREPUSCULARIA Schiff. (4946). Jordan Pond; Bar Harbor (Br.), May 3–June 10. The larva feeds on apple, pear, elm, maple, etc.
E. CREPUSCULARIA form ABRAXARIA Wlk. (4946). Bar Harbor, May 12 (Br.).

NACOPHORA Hulst

- N. QUERNARIA A & S (4953). Bar Harbor, June 9–July 6 (Br.). Rare.

PHIGALIA Duponchel

- P. TITEA Cram. (4958). The Half-winged Geometer. Mt. Desert, April.

ERANNIS Hübner

- E. TILIARIA Harr. (4964). The Lime-tree Winter Moth. Corfield at light; Mt. Desert (Br.), Oct. 17–Nov. 1. The larva is found on linden, elm, apple, etc.

LYCIA Hübner

- L. URSARIA Wlk. (4966). Bar Harbor, Apr. 30 (Br.).

AMPHIDASIS Treitschke

A. COGNATARIA Gn. (4968). The Pepper and Salt Currant Moth. The numbers of this species are gradually being reduced, probably on account of the destruction of currant bushes, due to the pine blister rust. Taken at light, Penikese, from June 20 to August 6. There was a very large hatch the last of June, '34. Now about half a dozen will come to the lights in an entire season.

EUCHLAENA Hübner

- E. SERRATA Drury (4994). Penikese; Bar Harbor (Br.). at light, July 11–20. Blueberry is one of the food plants.
E. OBTUSARIA Hhn. (4995). N. E. Harbor, July 18–22 (Minot). The larva feeds on jewel weed (*Impatiens*).
E. OBTUSARIA var. (4995). Bar Harbor, July 25 (Br.).
E. EFFECTA Wlk. (4996). N. E. Harbor (Minot); Penikese at light, June 21–July 21. Common. The larva feeds on rose.
E. EFFECTA Wlk. var. (4996). Paradise Hill at light, July 22.
E. JOHNSONARIA Fitch. (4997). Eden, July 16; Corfield at light, June 17–July 16. The larva feeds on oak, cherry, etc.
E. ASTYLUSARIA Wlk. (5001). Penikese at light, June 22.
E. OPONEARIA Wlk. (5001a). June 25–July 15 (Br.).
E. MARGINATA Minot (5002). Corfield at light; Bar Harbor (Br.), May 23–June 6.
E. IRRARIA B. & McD. (5006). Mt. Desert, July 1–17 (Br.).

XANTHOTYPE Warren

- X. CROCATARIA Fab. var. CAELARIA Hulst. (5007). Echo Lake; Paradise Hill and Corfield at light, June 30–July 20. The larva feeds on strawberry, currant and gooseberry.

SPODOLEPIS Hulst

- S. SUBSTRIATARIA Hulst. (5012). Bar Harbor, May 1 (Br.).

CAMPAEA Lamarek

- C. PERLATA Gn. (5015). Bar Harbor; Long Pond; N. E. Harbor; Corfield at light, June 16–Aug. 24.
C. PERLATA Guen. (5015). Bar Harbor, Aug. 26–Sept. 1 (Br.). Small form.

GUENERIA Packard

- G. BASIARIA Wlk. (5016). Long Pond, July 16; Station F190, June 2.

HOMOCLODES Hulst

- H. FRITILLARIA Gn. (5022). S. W. Harbor; Bar Harbor (Br.). Corfield at light, May 11–July 15.

APAECASIA Hulst

- A. DETERSATA Gn. (5023). Bar Harbor, late May and June. Section 28, June 25.
A. ATROPUNCTATA Pack. (5024). S. W. Harbor, June 5 (Br.).
A. SUBAEQUARIA Wlk. (5025). Station F191, June 6; Bar Harbor, May 17–25 (Br.). Frequents damp places.

PRIOCYCLA Guenée

- P. ARMATARIA H.-Sch. (5028). N. E. Harbor, July 4 (Minot); Bar Harbor, reared from *Ilex verticillata*, June 7 (Br.). The larva feeds on currant, birch, maple, apple, etc.

PLAGODIS Hübner

- P. SERINARIA H.-Sch. (5030). Jordan Pond; Bar Harbor, June 7–July 6 (Br.); Corfield at light, June 10–13.
P. KEUTZINGARIA Pack. (5032). Bar Harbor, May 23–June 12.
P. ALCOOLARIA Gn. (5038). Penikese at light, May 27.
P. PHLOGOSARIA Gn. (5040). Bar Harbor, Aug. 15 (Br.).

ANAGOGA Hübner

- A. PULVERARIA Linn. (5042). Bar Harbor, May 16–July 2 (Br.); Jordan Pond; Long Pond; June 7–July 16. The larva feeds on maple, willow, birch, etc.

HYPERETIS Guenée

- H. AMICARIA H.-Sch. (5043). Common from May 30–July 30. The larva feeds on alder, beech, birch, oak, etc. A species of many forms and varieties.
- H. AMICARIA form ALIENARIA H.-Sch. (5043). Bar Harbor, June 28 (Br.).

NEMATOCAMPA Guenée

- N. LIMBATA Haw. (5044). Penikese in Aug.; Bar Harbor, July 25 (Br.). This species extends southward to the tropics. The larva feeds on apple, maple, etc.

METARRANTHIS Warren

- M. HYPOCHRARIA H.-Sch. (5046). Corfield at light; Bar Harbor, June 13–22 (Br.). The larva feeds on apple, etc. Quite variable in markings.
- M. WARNERI Harr. (5048). Corfield at light, June 15; the Heath, June 6, about alders, the food.
- M. BROWERI Rupert. Bar Harbor (Br.).
- M. FRANCLEMONTI Rupert (5049.1). The Heath, June 6 (Br.).
- M. DUARIA Gn. (5050). N. E. Harbor; Corfield at light; Jordan Pond, June 10–26. The larvae feeds on oak.
- M. DUARIA form HAMARIA Gn. (5050). Bar Harbor, June 13.
- M. OBFIRMARIA Hbn. (5052). Bar Harbor, June 4 (Br.).

METANEMA Guenée

- M. INATOMARIA Gn. (5054). Corfield at light, June 17–July 21. The larva feeds on poplar.
- M. DETERMINATA Wlk. (5055). N. E. Harbor, July 25–Aug. 25 (Minot); Bar Harbor, June 22–July 22.

SELENIA Hübner

- S. ALCIPHEARIA Wlk. (5057). Bar Harbor, May 18 (Br.). Very scarce.

ENNOMOS Treitschke

E. SUBSIGNARIUS Hbn. (5059). July 10 (Br.). Scarce here but not south.

PERO Herrich-Schaeffer

P. HONESTARIUS Wlk. (5072). S. W. Harbor; Penikese at light May 25–July 15. The larva feeds on maple.

P. MORRISONARIUS Hy. Edw. (5080). S. W. Harbor, N. E. Harbor, July 15–Aug. 20; Bar Harbor, June 10–30 (Br.).

P. MARMORATUS Grossb. (5082). A female at light, Penikese, June 30.

NEPYTIA Hulst

N. CANOSARIA Wlk. (5109). N. E. Harbor; Echo Lake; Corfield and Penikese at light, Aug. 16–Sept. 11. The larva feeds on pine, spruce and larch.

N. CANOSARIA form *PINIARIA* Pack. (5109). Bar Harbor, Aug. 26–Sept. 22 (Br.).

N. PELLUCIDARIA Pack. (5111a). Sept. 1, 1936 (Br.).

CARIPETA Walker

C. DIVISATA Wlk. (5125). Corfield at light; N. E. Harbor; Eden, June 24–Aug. 23. The larva feeds on hemlock.

C. PINIATA Pack. (5126). Salisburg Cove, July 18. The larva feeds on white pine. Not common.

C. ANGUSTIORATA Wlk. (5128). Bar Harbor, Aug. 12; Corfield at light, July 13.

ELLOPIA Treitschke

E. ENDROPIARIA Grt. & Rob. (5144). N. E. Harbor; Bar Harbor (Br.), June 20–30. The larva feeds on oak, etc.

E. FISCELLARIA Gn. (5146). N. E. Harbor; Fall Brook, Sargent Mt.; Corfield, Sept. 6–13. Along Center Trail on Western Mt. these and the following appear about Sept. 8.

E. FISCELLARIA form *JOHNSONI* Swett. (5146). N. E. Harbor; S. W. Harbor; Bar Harbor, Sept. 8–29.

- E. FISCELLARIA form PECCATARIA Swett. (5146). Bar Harbor, Sept. 13.
E. FISCELLARIA form FLAGITIARIA Gn. (5146). Sept. 6-23 (Br.).
E. FISCELLARIA Gn. Powdery var. (5146). Sept. 22-23 (Br.).

CINGILIA Walker

- C. CATENARIA Drury (5152). The Chain-dotted Measuring Worm. Witch Hole Pond, Sept. 20. The larva feeds on *Vaccinum*, *Rubus*, *Myrica*, *Carex*, etc. In fact, it is reported as feeding on plants representing 17 botanic families.
C. CATENARIA RUBIFERARIA Swett. (5152a). Bar Harbor, (Br.); Witch Hole Pond, Sept. 20-24.

SICYA Guenée

- S. MACULARIA Harr. (5161). Penikese and Corfield at light, July 28-Aug. 10; Bar Harbor, July 1 (Br.). Very variable.
S. MACULARIA form SOLFATARIA Gn. (5161). N. E. Harbor, July 13 (Minot).

DEUTERONOMOS Prout

- D. MAGNARIUS Gn. (5170). N. E. Harbor (Minot); Corfield; Penikese, Sept. 1-24. The larva feeds on birch, maple, elm, etc.

APICIA Guenée

- A. CONFUSARIA Hbn. (5184). Bar Harbor, (Burton); Eden, July 24-Aug. 7. The larva feeds on clover.
A. CONFUSARIA form METROCAMPARIA Gn. (5184). Penikese at light, July 7-16.

TETRACIS Guenée

- T. CROCALLATA Gn. (5197). Corfield at light, June 17; Bar Harbor.
T. LORATA Grt. (5198). N. E. Harbor; Penikese at light, June 22-July 30. Bred from birch, June 16 (Br.). The larva feeds on sweet fern (*Comptonia*).

ABBOTTANA Hulst

- A. CLEMATARIA A. & S. var. (5199). Bar Harbor, May 12-18 (Br.); Penikese at light, May 30; a somewhat variable species.

ANTEPIONE Packard

- A. ARCASARIA Wlk. (5200). S. W. Harbor, June 12. A form that is scarce in the north.

PROCHOERODES Grote

- P. TRANSVERSATA Drury (5211). N. E. Harbor; Bar Harbor; Penikese, Aug. 17-Sept. 13. The larva feeds on maple, currant, apple, etc. Common.
- P. TRANSVERSATA INCURVATA Gn. (5211a). N. E. Harbor (Minot); Eagle Lake, flying, Aug. 15-Sept. 1.

EPIPLEMIDAE

CALLIZZIA Packard

- C. AMORATA Pack. (5223). Rearer (Br.). May, 1943.

Order LEPIDOPTERA (Microlepidoptera)

LIMACODIDAE

LITHACODES Packard

- L. FASCIOLA H. S. (5266). Bar Harbor; N. E. Harbor, July 11-24. The larva feeds on maple, apple, huckleberry, etc., but favors wild cherry.

PACKARDIA Grote and Robinson

- P. ELEGANS Pach. (5270). Jordan Pond; Bar Harbor, June 10-27 (Br.). The larva feeds on orchard and shade trees.
- P. GEMINATA Pack. (5272). Bar Harbor, June 17-July 3. The larva feeds on wild cherry.

TORTRICIDIA Packard

- T. FLEXUOSA Grt. (5277). N. E. Harbor; Echo Lake; Bar Harbor, (Br.), July 4-17. Larva feeds on oak, wild cherry and many other trees.
- T. FLEXUOSA form CAESONIA Grt. (5277). Bar Harbor, July 4 (Br.).
- T. PALLIDA H. S. (5278). July 17 (Br.). Oak, willow and other trees are hosts.
- T. TESTACEA Pack. (5279). N. E. Harbor, June 28. The larva feeds on oak, birch, wild cheery, etc.

PYRALIDAE

DICYMOLOMIA Zeller

- D. JULIANALIS Wlk. (5347). Bred from *Typhus*, June 27-July 24 (Br.). The larvae breed in the heads making them fluff out.

HYMENIA Hübner

- H. PERSPECTALIS Hbn. (5353). The Spotted Beet Web-worm. Bar Harbor, July 20-Sept. 17 (Br.).
- H. FASCIALIS Cram. (5354). The Hawaiian Beet Worm. Bar Harbor, Sept. 16 (Br.).

DESMIA Westwood

- D. FUNERALIS Hbn. (5355). The Grape Leaf Folder. N. E. Harbor; Corfield at light; Bar Harbor, June 15-Aug. 10 (Br.). In the absence of grape, the larva will feed on the evening primrose.

DIASTICTIS Hübner

- D. ARGYRALIS Hbn. (5367). Bar Harbor, Aug. 1-4 (Br.).
- D. ARGYRALIS form VENTRALIS G. & R. (5367). Bar Harbor, Aug. 1-10 (Br.).

BLEPHAROMASTIX Lederer

- B. STENIALIS Gn. (5393) ? N. E. Harbor, July 8-20 (Minot). This may be the extremely variable 5718 *G. primordialis* Dyar.

PANTOGRAPHA Lederer

P. LIMATA G. & R. (5397). Corfield at light, Aug. 3.

SYLEPTA Hübner

S. SILICALIS Gn. (5400). Bar Harbor, Sept. 16–Oct. 10 (Br.).

SAMEODES Snellen

S. ELEALIS Wlk. (5427). Bar Harbor, May 12–July 20 (Br.).

EVERGESTIS Hübner

E. STRAMINALIS Hbn. (5446). The Purple-backed Cabbage Worm. N. E. Harbor (Minot); Corfield at light, July 23–Aug. 9.

CROCIDOPHORA Lederer

C. SERRATISSIMALIS Zell. (5448). Eden, July 5, '41 (Br.). Scarce.

NOMOPHILA Hübner

N. NOCTUELLA D. & S. (5455). Common, June–Sept. The larva feeds on *Polygonum*, etc.

LOXOSTEGE Hübner

L. CHORTALIS Grt. (5462). Bar Harbor, June 30 (Br.).

L. SIMILALIS Gn. (5471). The Garden Web-worm. Mt. Desert, Aug. 17–Sept. 16 (Br.).

L. STICTICALIS Linn. (5478). The Sugar-beet Web-worm. Mt. Desert, Aug. 5–16 (Br.).

L. COMMIXTALIS Wlk. (5479). S. W. Harbor, June 8–July 9 (Br.).

PHLYCTAENIA Hübner

P. RUBIGALIS Gn. (5546). The Celery Leaf-tier. Mt. Desert, July 16–Aug. 13 (Br.). Larvae found on Cinerarias, Chrysanthemum, Verbena, Ageratum, Boston ivy, etc.

P. INQUINATALIS Zell. (5549). Bar Harbor, June 6 (Br.).

P. SHEPPARDI McD. (5551). Bar Harbor, July 19 (Br.).

P. ACUTELLA Wlk. (5560). Gt. Heath and Bar Harbor, July 4–29 (Br.).

- P. TERREALIS Treit. (5561). N. E. Harbor; S. W. Harbor, June 24–July 26. The larva feeds on *Solidago*.
P. EXTRICALIS Gn. (5562). S. W. Harbor, July 10; Bar Harbor, June 14–July 10 (Br.). The larva is a leaf-roller on alder.
P. HELVALIS Wlk. (5563) ? Bar Harbor, July 4 (Br.).
P. HELVALIS Wlk. Pale Var. (5563). June 27–July 15 (Br.).
P. TERTIALIS Gn. (5564). Eden; N. E. Harbor, July 27–Sept. 3. The larva lives in the pith of elder.

PYRAUSTA Schrank

- P. PERTEXTALIS Led. (5576). Eagle Lake; N. E. Harbor, July 18–Aug. 5.
P. FISSALIS Grt. (5577). July 30–Aug. 7 (Br.).
P. THESTEALIS Wlk. (5579). Sea Wall, July 3–Aug. 10 (Br.).
P. SUBMEDIALIS Grt. (5586) ? N. E. Harbor, July 18. An old record, perhaps another one of those listed.
P. ARSALTEALIS Wlk. (5590). Bar Harbor, June 10–July 1 (Br.).
P. PENITALIS Grt. (5594). Tremont, Aug. 8 (Br.). Scarce.
P. NUBILALIS Hbn. (5594.1). The European Corn Borer. Feeds on corn and a number of vegetables having fleshy stalks such as celery, bean, rhubarb. A great pest which, first seen near Boston in 1917, has spread rapidly. There is a single and a double brooded form. Scarce. Aug. 7 at light.
P. FUMALIS Gn. (5598). Eden, July 25–Aug. 25; Bar Harbor, July 17–Aug. 17 (Br.).
P. FUMOFERIALIS Hlst. (5602). Long Pond, June 27.
P. ACRIONALIS Wlk. (5616). Bar Harbor (Br.). Corfield at light, July 3–Sept. 3.
P. SUBSEQUALIS Gn. (5622). Bar Harbor, Aug. 2–Sept. 3.
P. MARGINALIS Wlk. (5645). Mt. Desert, May 19–22 (Br.).
P. FUNEBRIS Ström. (5647). Bar Harbor; N. E. Harbor; S. W. Harbor, June 21–July 10. The larva lives in the basal leaves of *Solidago*.

NYMPHULA Schrank

- N. MACULALIS Clem. (5680). New Mill Pond, Station F131, July 14; Bar Harbor, Aug. 18-25 (Br.).
- N. ALLIONEALIS Wlk. (5681). Bar Harbor, July 27-Aug. 25 (Br.).
- N. ALLIONEALIS Wlk. ab. ITEALIS Wlk. (5681). Bar Harbor, Aug. 16.
- N. BROWERI Heinr. (5686.1). Type material collected by Dr. A. E. Brower around the water holes in the Sea Wall Bog which is a sphagnum one. Proc. Ent. Soc. Wash., Vol. 42, No. 2. Flies July 7-Aug. 26. Larva on *Cephalozia fluitans* Nees.?
- N. GYRALIS Hlst. (5688). Upper Breakneck and New Mill Ponds, July 14-Aug. 3; S. W. Harbor, July 19-25 (Br.).
- N. ICCIUSALIS Wlk. (5691). S. W. Harbor; Corfield light, July 3-28. The larva lives on pond weed (*Potamogeton*), and other aquatic plants.

CATACLYSTA Hübner

- C. MAGNIFICALIS Hbn. (5699). Mt. Desert, June 24 (Br.).

GESHNA Dyar

- G. PRIMORDIALIS Dyar (5718). N. E. Harbor (Minot); Paradise Hill at light, July 17-27. Common and general.

DIATHRAUSTA Lederer

- D. RECONDITALIS Wlk. (5719). Bar Harbor, Aug. 13 (Br.). Scarce.

EURRHYPARA Hübner

- E. URTICATA Linn. (5724). Eden, July. The larva feeds on nettle. A European species first recorded from Nova Scotia. Bar Harbor, June 6-July 16 (Br.).

SCOPARIA Haworth

- S. CENTURIELLA D. & S. (5725). Mt. Desert, July 8-25 (Br.).
 S. PENUMBRALES Dyar (5734). Mt. Desert, June 12-Aug. 7 (Br.).
 S. TRUNCATALIS McD. (5737) ? Bar Harbor, Aug. 17 (Br.).
 S. LUGUBRALIS Wlk. (5742) ? Bar Harbor, Aug. 25, 1933. Bar Harbor (Br.); Eden, Aug. 20-Sept. 10.
 S. BASALIS Klk. (5747). N. E. Harbor; Eden; S. W. Harbor (Br.), June 27-Sept. 1; Bar Harbor, July 13-Sept. 10 (Br.).

PYRALIS Linnaeus

- P. FARINALIS Linn. (5758). Meal Moth. Infests meal and stored grains. Common and generally distributed. May have several generations a year.
 P. COSTIFERALIS Wlk. (5759). Mt. Desert, July 15-Aug. 5 (Br.).

HERCULIA Walker

- H. INTERMEDIALIS Wlk. (5766). Mt. Desert, July 11-Aug. 20 (Br.).
 H. THYMETUSALIS Wlk. (5770). Bar Harbor, July 16 (Br.).
 H. INFIMBRIALIS Dyar (5773). Mt. Desert, July 22.
 H. OLINALIS Gll. (5774). Bar Harbor, July 4-18 (Br.). The larva feeds on oak leaves.

CONDYLOLOMIA Grote

- C. PARTICIPIALIS Grt. (5809). Mt. Desert, July 15-17 (Br.).

SCHOENOBIVS Duponchel

- S. AMBLYPTEPENNIS Dyar (5831). Bar Harbor, July 15-23 (Br.).
 S. sp. Bar Harbor, July 4 (Br.).
 S. sp. Bar Harbor, Aug. 6 (Br.).

RAPHIPTERA Hampson

- R. ARGILLACEELLA Pack. (5850). S. W. Harbor bog and Gt. Heath, July 2-Aug. 22 (Br.).

CRAMBUS Fabricius

- C. HAMELLUS* Thun. (5855). Mt. Desert, Aug. 17–Sept. 15 (Br.).
- C. PASCUELLUS* Linn. (5857). N. E. Harbor, July 8–Aug. 20 (Minot); Mt. Desert, June 28–Aug. 24 (Br.).
- C. LYONSELLUS* Haim. (5858). Bar Harbor; S. W. Harbor bog, July 13–Aug. 16 (Br.).
- C. GIRARDELLUS* Clem. (5860). N. E. Harbor, Aug. 11–Sept. 11 (Minot); Penikese at light, Aug. 13.
- C. LEACHELLUS* Zinck. (5861). N. E. Harbor (Minot); Corfield; Bar Harbor, Aug. 23–Sept. 17 (Br.).
- C. AINSLIEELLUS* Klots (5861.1). Type Material. Bar Harbor, Sept. 17, '38 (Br.). American Museum Novitates No. 1191.
- C. WATSONELLUS* Klots (5861.2). Type Material. Described from a type-lot of seventy-two specimens. These are: holotype male and allotype female, Bar Harbor, Maine, August 30, 1937. (Br.). Dr. Brower collected the series at Tremont, Maine, in a marsh near a small tidal creek that was definitely not an acid bog, the habitat to which so many *Crambus* are limited. American Museum Novitates 1191.
- C. UNISTRIATELLUS* Pck. (5862). Penikese and Corfield at light, Aug. 8–20. Bar Harbor, July 17–Aug. 13 (Br.). Scarce.
- C. PRAEFECTELLUS* Zinck. (5863). N. E. Harbor, Aug. 20 (Minot); S. W. Harbor bog, July 5–25 and Bar Harbor, June 24 (Br.); Robinson Mt., Sept. 2.
- C. BIDENS* Zell. (5867). S. W. Harbor, July 28; S. W. Harbor bog, July 1–Aug. 16 (Br.); New Mill Pond, Aug. 29.
- C. DISSECTUS* Grt. (5869). S. W. Harbor bog, June 2–12 (Br.).
- C. ALBOCLAVELLUS* Zell. (5874). N. E. Harbor; Eden; Bar Harbor, June 28–Aug. 7 (Br.). The larva feeds on grasses.
- C. CAROLINELLUS* Haim. (5875) ? Bar Harbor, July 20–Aug. 11 (Br.).
- C. AGITATELLUS* Clem. (5876). N. E. Harbor (Minot); Eden; Bar Harbor, July 5–Aug. 20 (Br.).

- C. LATIRADIELLUS Wlk. (5878). (*Myellus* auct.). Bar Harbor, July 28–Aug. 16 (Br.).
- C. LAQUEATELLUS Clem. (5880). Station F40, June 15.
- C. HORTUELLUS Hbn. race TOPIARIUS Grt. (5883). Common, June 24–July 17.
- C. ALBELLUS Clem. (5884). N. E. Harbor; S. W. Harbor; Bar Harbor, July 2–Aug. 12 (Br.). The larva feeds on grasses.
- C. INNOTATELLUS Wlk. (5887). Bar Harbor, July 16–Aug. 20 (Br.).
- C. TURBATELLUS Wlk. (5888). Pretty Marsh, Aug. 16 (Br.). Scarce.
- C. ELEGANS Clem. (5889). Bar Harbor, July 22–Aug. 17 (Br.).
- C. VULGIVAGELLUS Clem. (5892). N. E. Harbor, Sept. 6 (Minot); Bar Harbor, Aug. 24–Sept. 3 (Br.).
- C. RURICOLELLUS Zell. (5895). N. E. Harbor, (Minot); Bar Harbor, Aug. 9–20 (Br.). The larva feeds on grass and sorrel.
- C. TETERRELLUS Zinck. (5896). Bar Harbor, Aug. 11 (Br.).
- C. MUTABILIS Clem. (5910). N. E. Harbor; Bar Harbor, June 28–Aug. 20 (Br.). The larva feeds on grass.
- C. TRISECTUS Wlk. (5919). N. E. Harbor, Aug. 23 (Minot); Bar Harbor, July 7–Sept. 28 (Br.). The larva feeds on grasses.
- C. LACINIELLUS Grt. (5921). Bar Harbor, Aug. 28–Sept. 7 (Br.).
- C. CALIGINOSELLUS Clem. (5925). Bar Harbor, July 19 (Br.).
- C. ZEELLUS Fern. (5927). Corfield at light, July 9.
- C. LUTEOLELLUS Clem. (5928). S. W. Harbor, June 24–Aug. 28 (Br.).

THAUMATOPSIS Morrison

- T. GIBSONELLUS Kft. (5935). Bar Harbor, Aug. 24 (Br.).

ARGYRIA Hübner

A. NIVALIS Dru. (5954). N. E. Harbor (Minot); Penikese; Bar Harbor, June 6–July 18 (Br.).

A. AURATELLA Clem. (5957). Bar Harbor, July 15–18 (Br.).

APHOMIA Hübner

A. SOCIELLA Linn. (5990). Bar Harbor, July (Moore); Bar Harbor, July 1–Aug. 7 (Br.). The larvae live in nests of bumblebees and wasps.

ONEIDA Hulst

O. LUNULALIS Hlst. (6025). Bar Harbor, July 17 (Br.).

TETRALOPHA Zeller

T. ASPERATELLA Clem. (6041). N. E. Harbor; Eden; Corfield, July 15–Aug. 25. The larva feeds on oak, maple, elm, etc.

T. APLASTELLA Hlst. (6042). Mt. Desert Isl., July 16–26 (Br.).

T. sp. near MILITELLA Zell. Corfield, Sept. 15, '37.

MYELOIS Hübner

M. OBNUPSELLA Hlst. (6063). N. E. Harbor (Minot); Bar Harbor, June 7–Aug. 20 (Br.).

M. ZONULELLA Rag. (6066). Bar Harbor, July 27–Aug. 31 (Br.).

ACROBASIS Zeller

A. BETULELLA Hlst. (6101). Eden, July 25; bred from birch, Bar Harbor, July 16–27 (Br.). The larva feeds on white birch.

A. RUBRIFASCIELLA Pack. (6103). N. E. Harbor, Aug. 15 (Minot); Penikese at light, Aug. 13. The larva feeds on alder.

A. COMPTONIELLA Hlst. (6104). Bar Harbor (Br.); Corfield at light, July 25–27. Larvae common on *Comptonia*. All Acrobasis larvae in characteristic flask-shaped larval nests.

A. sp. Bred from *Myrica gale*, July 21–29 (Br.).

MINEOLA Hulst

- M. TRICOLORELLA Grt. (6111). Bar Harbor, July 8-21 (Br.).
M. AMPLEXELLA Rag. (6112). Sea Wall, July 4, '37 (Br.).
M. VACCINII Riley (6114). Bar Harbor, July 8-21 (Br.).
M. INDIGENELLA Zell. (6115). Apple Leaf Crumpler; N. E. Harbor, Aug. 31 (Minot); Bar Harbor, July 16-Aug. 31 (Br.).

DIORYCTRIA Zeller

- D. ABIETELLA D. & S. (6129). Bred from blister rust pine, Bar Harbor, July 30-Sept. 9 (Br.).

PINIPESTIS Grote

- P. ZIMMERMANNI Grt. (6133). Zimmermann's Pine Moth. Bred from blister rust pine, Bar Harbor, Aug. 2-18; N. E. Harbor, Aug. 13 (Br.).

GLYPTOCERA Ragonot

- G. CONSOBRINELLA Zell. (6148). Bar Harbor; N. E. Harbor; Bar Harbor, June 13-July 25 (Br.).

TLASCALA Hulst

- T. FINITELLA Wlk. (6177). Bar Harbor, June 11-July 28 (Br.).

MEROPTERA Grote

- M. PRAVELLA Grt. (6184). Eden; N. E. Harbor, July 16-Aug. 10. The larva feeds in sumac heads.
M. NEBULELLA Riley (6185). N. E. Harbor; Eden, July 21-Aug. 25.

IMMYRLA Dyar

- I. PASADAMIA Dyar (6189). Bar Harbor, July 7-28 (Br.).

SALEBRIA Zeller

- S. CARNEELLA Hlst. (6204). Bar Harbor, July 19 (Br.).
S. VIRGATELLA Clem. (6205). Bred from *Robinia*, July 7 (Br.). Corfield at light, July 28.

S. VIRGATELLA form *QUINQUEPUNCTELLA* Grt. (6205). Bred June 29–July 1 (Br.). The larva feeds on locust, forming a web between two leaves.

S. BASILARIS Zell. (6209). Bar Harbor, July 23 (Br.).

LAODAMIA Ragonot

L. FUSCA Haw. (6227). Penikese in Aug.; Bar Harbor, July 9–Aug. 18 (Br.). The larva feeds on willow and *Vaccinium*.

ELASMOPALPUS Blanchard

E. LIGNOSELLUS Zell. (6231). The Lesser Corn-stalk Borer. Bar Harbor, Aug. 14–Sept. 16 (Br.).

EUZOPHERA Zeller

E. OCHRIFRONTILLA Zell. (6318). Bar Harbor, July 17–Aug. 29 (Br.).

VITULA Ragonot

V. BASIMACULATELLA Rag. (6325). Bar Harbor, July 20–Aug. 18 (Br.).

V. n.sp. Bar Harbor, July 25 (Br.).

CANARSIA Hulst

C. ULMIARROSOCELLA Clem. (6332). Eden; N. E. Harbor; Bar Harbor, July 1–Sept. 5 (Br.). The larva is found on elm.

HOMOEOSOMA Curtis

H. UNCANALE Hlst. (6364). Bar Harbor, July 18, '38 (Br.).

H. MUCIDELLUM Rag. (6370). N. E. Harbor, Sept. 5 (Minot); Bar Harbor, July 24–Aug. 5 (Br.). The larva lives in the flowers of *Gnaphalium*.

H. STYPTICELLUM Grt. (6371). Bar Harbor, July 10–Aug. 17 (Br.).

EPHESTIODES Ragonot

E. INFIMELLA Rag. (6380). Bar Harbor, July 16–24 (Br.).

MOODNA Hulst

M. OSTRINELLA Clem. (6396). Bar Harbor, July 21-Aug. 3 (Br.).

M. sp. possibly PELVICULELLA Hlst. Bar Harbor, July-Aug. (Br.).

EPHESTIA Guenée

E. KUEHNIELLA Zell. (6399). The Mediterranean Flour Moth. A wide spread species which is a great pest wherever flour is stored. Common.

E. ELUTELLA Hbn. (6401). Bar Harbor, July 14-Aug. 1 (Br.).

PLODIA Guenée

P. INTERPUNCTELLA Hbn. (6408). The Indian Meal Moth. The larva is said to feed upon anything edible and is very destructive to stored grain. Bred by (Br.).

PEORIA Ragonot

P. APPROXIMELLA Wlk. (6439). N. E. Harbor, (Minot); Bar Harbor (Br.); Penikese at light, July 1-27.

PTEROPHORIDAE

TRICHOPTILUS Walsingham

T. LOBIDACTYLUS Fitch (6463). Mt. Desert, July 5-Aug. 7 (Br.). Host is goldenrod.

PTEROPHORUS Geoffroy

P. TENUIDACTYLUS Fitch (6467). Eden; Station F80, June 4-July 15. The larva feeds on blackberry.

PLATYPTILIA Hübner

P. PALLIDACTYLA Haw. (6476). Common, July 10-25. The larva bores into stems of yarrow.

P. CARDUIDACTYLA Riley (6477). Bar Harbor, Sept. 27 (Br.).

ADAINA Tutt

- A. MONTANA Wlsm. form DECLIVIS Meyr. (6519). Bar Harbor, July 30–Aug 17 (Br.).

OIDAEMATOPHORUS Wallengren

- O. MATHEWIANUS Zell. (6527). Bar Harbor, July 15–Aug. 3 (Br.).
 O. EUPATORII Fern. (6529). Mt. Desert, Aug. 31–Sept. 16 (Br.).
 O. HOMODACTYLUS Wlk. (6561). N. E. Harbor; Bar Harbor, July 22–Aug. 25 (Br.). The larva feeds on *Solidago*.
 O. ELLIOTTH Fern. (6562). Bar Harbor, July 19–Aug. 31 (Br.).
 O. STRAMINEUS Wlsm. (6563). Bred July 30 (Br.). General in August.
 O. MONODACTYLUS Linn. (6588). Mt. Desert, July 18–Sept. 14 (Br.).

OLETHREUTIDAE

BACTRA Stephens

- B. FURFURANA Haw. (6596). S. W. Harbor bog, July 25–Aug. 16 (Br.).

POLYCHROSIS Ragonot

- P. RHOIFRUCTANA Kft. (6605). Bred from sumac (*Rhus typhina*) heads, Bar Harbor, July 29 (Br.).
 P. SPIRAEIFOLIANA Hein. (6607). Sea Wall, June 12 (Br.).
 P. SPIRAEAE McD. (6617). Bar Harbor, July 24 (Br.).

ENDOTHENIA Stephens

- E. HERBESANA Wlk. (6625)? det. McD. S. W. Harbor, Sept. 4, '37.
 E. DAECKEANA Kft. (6526). Bred ex Pitcher Plant (*Sarracenia*), Sea Wall Bog, June 27 (Br.).

TANIVA Heinrich

- T. ALBOLINEANA Kft. (6630). Bar Harbor, July 10–16 (Br.).

HULDA Heinrich

H. IMPUDENS Wlshm. (6632). Sea Wall, Aug. 1; Bar Harbor, July 4-30 (Br.).

APHANIA Hübner

A. CAPREANA Hbn. (6638). N. E. Harbor, July 22 (Minot); Bar Harbor, June 26-July 19, Bred ex willow (Br.).

A. YOUNGANA McD. (6639). Bar Harbor, July 27-Aug. 31 (Br.).

A. N. SP. (6639.1). S. W. Harbor, June 5-12 (Br.).

A. ALBEOLANA Zell. (6647). Eden; Bar Harbor, June 13-Aug. 7 (Br.). The larva is a leaf-roller on white birch.

A. DECEPTANA Kft. (6649). Bar Harbor, July 22 (Br.).

A. DEXTRANA McD. (6650). Bar Harbor, July 6 (Br.).

A. INFIDA Heinr. (6651). det. McD. June 30.

A. REMOVANA Kft. (6652). Bar Harbor, Aug. 21 (Br.).

SCIAPHILA Treitschke

S. DUPLEX Wlshm. (6653). Bar Harbor, July 3-7 (Br.).

BADEBECIA Heinrich

B. URTICANA Hbn. (6654). Bar Harbor, June 13-July 18 (Br.), bred from white birch; S. W. Harbor, July 7-15. Larva feeds on cherry.

EXARTEMA Clemens

E. OLIVACEANUM Fern. (6662). Salisbury Cove, Aug. 7.

E. ELECTROFUSCUM Heinr. (6665). July 17-Aug. 20 (Br.).

E. RUSTICANUM McD. (6666). Bar Harbor, July 15-Aug. 12. (Br.).

E. ZELLERIANUM Fern. (6667). Eden, Aug. 7; Bar Harbor, July 18-Aug. 9 (Br.). The larva crumples the leaves of white birch.

E. TREPIDULUM Heinr. (6681)? Bar Harbor, Aug. 2-7 (Br.).

E. MELANOMESUM Heinr. (6692). Bar Harbor, July 4, 1936 (Br.).

- E. VALDANUM McD. (6693). July 14–Aug. 7 (Br.).
 E. PERMUNDANUM Clem. (6696)? Bar Harbor, July 3, 1939 (Br.).
 E. SUBMISSANUM McD. (6697). Bar Harbor, Aug. 26 (Br.).
 E. NANANUM McD. (6698). Sea Wall Bog, July 21–25 (Br.).
 E. APPENDICEUM Zell. (6700). Mount Desert, July 2, 1934 (Br.).
 E. CONCINNANUM Clem. (6701). Aug. 9 (Br.).
 E. FASCIATANUM Clem. (6702). Eden, Aug. 7; Bar Harbor, May 26–July 19 (Br.). The larva feeds on *Rumex*.

HEDIA Hübner

- H. SEPARATANA Kft. (6706). Bar Harbor, July 18–30, '38.
 H. OCHROLEUCANA Hbn. (6707). The Rose Bud-worm, Bar Harbor, July 27 (Br.).

OLETHREUTES Hübner

- O. AGILANA Clem. (6715). Bar Harbor, July 2 (Br.).
 O. ALBICILIANA Fern. (6716). Bar Harbor, June 21–July 15; Tremont, July 21 (Br.); Eden, July 23. The larva is purple and a leaf-roller on *Spiraea*.
 O. CONSTELLATANA Zell. (6720). S. W. Harbor; Bar Harbor, June 17–July 2 (Br.).
 O. ASTROLOGANA Zell. (6721). S. W. Harbor, June 27 (Br.).
 O. CESPITANA Hbn. (6728). (*Instrutana* Clem.). Bar Harbor, July 10–Aug. 9 (Br.). A leaf-tier on clover.
 O. POLLUXANA McD. (6730). Mt. Desert, July 13 (Br.). Also a form not typical was taken.
 O. GLACIANA Moesch. (6731). Mt. Desert, June 12–24 (Br.).
 O. BIPARTITANA Clem. (6732). N. E. Harbor; Eden, July 1–Aug. 28.
 O. INTERMISTANA Clem. (6735). Sea Wall Bog, July 2–Aug. 26 (Br.).

EVORA Heinrich

- E. HEMIDESMA Zell. (6743). Eden; Bar Harbor, July 4–Aug. 25 (Br.). The larva webs the leaves and flowers of *Spiraea*.

PETROVA Heinrich

- P. COMSTOCKIANA Fern. (6754). Bar Harbor, June 20–July 7 (Br.). Bred from pitch masses on twigs *Pinus rigida*.
 P. GEMISTRIGULANA Kft. (6762). Bar Harbor, July 8–29 (Br.).

SPILONOTA Stephens

- S. OCELLANA D. & S. (6768). Bar Harbor; S. W. Harbor, July 6–18 (Br.).

THIODIA Hübner

- T. RADIATANA Wlshml. (6770). Bar Harbor, June 4–22 (Br.).
 T. ROSEOTERMINANA Kft. (6776). Bar Harbor, June 6–15 (Br.).
 T. FORMOSANA Clem. (6778). Mt. Desert, May 12–June 8 (Br.).
 T. REFUSANA Wlk. (6782). Bar Harbor, May 1–25 (Br.); Robinson Mt., Sept. 2.
 T. AUTUMNANA McD. (6784.1). Acadia Mt., Sept. 2, 1935 (Br.).
 T. OCROTERMINANA Kft. (6787). N. E. Harbor (Minot); Bar Harbor, July 21–Aug. 15 (Br.).
 T. PERFUSCANA Heimr. (6788). Bar Harbor, July 23–Aug. 17 (Br.).
 T. CRISPANA Clem. (6789). Tremont, Aug. 16 (Br.).
 T. ALTERANA Heimr. (6790). Bar Harbor, July 20–Aug. 21 (Br.).
 T. SINESTRIGANA McD. (6792). Sea Wall Bog, July 19; Bar Harbor, Aug. 22 (Br.).
 T. OLIVACEANA Riley (6854). Mt. Desert, June 30–July 19 (Br.).

EUCOSMA Hübner

- E. PERGANDEANA Fern. (6894). Bar Harbor, June 20–Aug. 2 (Br.).
 E. TOCULLIONANA Heimr. (6929). Mt. Desert, July 6 (Br.).
 E. DORSISIGNATANA Clem. (6972). Penikese; N. E. Harbor, Aug. 1–25; Bar Harbor, Aug. 29–Sept. 29 (Br.). Larva feeds in roots of goldenrod.

- E. SIMILANA* Clem. (6972b). N. E. Harbor, Sept. 24 (Minot).
Bar Harbor, Aug. 2-29 (Br.).
- E. DERELICTA* Heinr. (6975). (*Juncticiliana* auct.). Bar
Harbor, July 20-Aug. 5 (Br.).
- E. MANDANA* Kft. (6978). Bar Harbor (Br.).
- E. CATACLYSTIANA* Wlk. (7004). Bar Harbor, July 19-Aug.
20 (Br.).

EPIBLEMA Hübner

- E. SCUDDERIANA* Clem. (7027). N. E. Harbor, July 17. The
larvae live in galls on *Solidago*.
- E. CAROLINANA* Wlshn. (7032). Record lost.
- E. PURPURISSATANA* Heinr. (7034). July 29-Aug. 4 (Br.).
- E. SUFFUSANA* Zell. (7040). N. E. Harbor, July 4-Aug. 24.
The larva feeds on the buds and flowers of the rose.
- E. CULMINANA* Wlshn. (7043). Bar Harbor, Aug. 2-20
(Br.).
- E. OTIOSANA* Clem. (7044). Bar Harbor, July 7-Aug. 13
(Br.). The host plant is *Bidens*.

SONIA Heinrich

- S. CONSTRICTANA* Zell. (7054). Bar Harbor, July 22-25
(Br.).

GYPSONOMA Meyrick

- G. FASCIOLANA* Clem. (7058). N. E. Harbor (Minot); Bar
Harbor, June 8-July 15 (Br.).
- G. SUBSTITUTIONIS* Heinr. (7062). Mt. Desert, Aug. 6; Bar
Harbor, June 25-Aug. 31 (Br.).
- G. SALICICOLANA* Clem. (7063). Bar Harbor, July 2-10 (Br.).

PROTEOTERAS Riley

- P. MOFFATIANA* Fern. (7070). July 17 (Br.).

ZEIRAPHERA Treitschke

- Z. RATZEBURGIANA* Ratz. (7074). Bred from white spruce
buds, June 28-Aug. 3 (Br.).

EXENTERA Grote

- E. IMPROBANA Wlk. (7078). Mt. Desert, Apr. 15-26 (Br.).
E. IMPROBANA Wlk. small form (7078). Bar Harbor, May 11-23 (Br.). This is probably a good species.

GRETCHENA Heinrich

- G. AMATANA Heinr. (7093). Mt. Desert, May 28 (Br.).

NORMA Hübner

- N. DIETZIANA Kft. (7102). Bar Harbor, July 2, '37 (Br.).

KUNDRYA Heinrich

- K. FINITIMANA Heinr. (7103). Bred June 5-July 22 (Br.).
The larva is first a case-bearing miner and later a webber on *Nemopanthus mucronatus* and *Ilex verticillata*.

EPINOTIA Hübner

- E. SIMILANA Hbn. (7106). Bar Harbor, July 17-Sept. 21 (Br.). The hosts are hazel and birch.
E. SOLANDRIANA Linn. (7109). Bar Harbor, July 24 (Br.).
Leaf-roller on poplar.
E. RECTIPPLICANA Wlsh. (7128). Bar Harbor, June 14-28 (Br.).
E. SOLICITANA Wlk. (7130). N. E. Harbor; Mt. Desert, May 23-Sept. 4 (Br.). Larva feeds on white birch.
E. NISELLA Clerck (7132). Bar Harbor, June 30-July 1 (Br.).
E. NISELLA form CRIDDLEANA Kft. (7132). Aug. 13, '34 (Br.).
E. TRANSMISSANA Wlk. (7135). N. E. Harbor; Corfield at light; Bar Harbor, June 24-Aug. 9 (Br.).
E. MOMONANA Kft. (7137). Bred from borer-infested alder, July 11, '35 (Br.).
E. ACERIELLA Clem. (7158). Mt. Desert, June 11-July 11 (Br.). Reared from maple.
E. NORMANANA Kft. (7160). July 4-Aug. 8 (Br.).

- E. NANANA Treit. (7161). Bred from red spruce, Bar Harbor, May 21–June 21 (Br.).
- E. SEPTEMBERANA Kft. (7168). Bar Harbor, Aug. 12–Oct. 3 (Br.).
- E. LINDANA Fern. (7172). Bred from *Cornus*, Bar Harbor, Aug. 26–Sept. 5 (Br.).

ANCHYLOPERA Stephens

- A. NUBECTULANA Clem. (7175). N. E. Harbor (Minot); S. W. Harbor, May 25–July 16 (Br.). The larva is a leaf-roller on apple, etc.
- A. SUBAEQUANA Zell. (7176). S. W. Harbor; N. E. Harbor (Minot), July 6–13; S. W. Harbor, June 6–27 (Br.).
- A. DISCIGERANA Wlk. (7178). Bar Harbor, June 6–July 3 (Br.). A birch feeder.
- A. ANGULIFASCIANA Zell. (7181). The Clover Leaf-tier. Bar Harbor, June 14–Aug. 20 (Br.).
- A. BURGESSIANA Zell. (7184). Bar Harbor, June 6–28 (Br.).
- A. LACINIANA Zell. (7187). Bar Harbor, June 21–July 5 (Br.).
- A. PULCHELLANA Clem. (7190). Sea Wall Bog, June 12–26 (Br.).

ANCYLIS Hübner

- A. COMPTANA Froh. (7193). The Strawberry Leaf-roller. The larva rolls up the leaves of strawberries and feeding upon the parenchyma causes the plants to wither and die. Bar Harbor, May 13–19 (Br.).
- A. FLORIDANA Zell. (7193.1). Bred from bearberry (*Arctostaphylos Uva-ursi*), June 3–10 (Br.). Webs the terminals. Not the typical form.
- A. APICANA Wlk. (7195). N. E. Harbor (Minot); Bar Harbor, June 6–July 5–8 (Br.). The larva feeds on raspberry.
- A. CARBONANA Heinr. (7197). Sea Wall Bog, June 5–July 2 (Br.).
- A. DIMINUTANA Haw. (7198). Bar Harbor, July 21–Aug. 2 (Br.).

- A. GOODELLIANA Fern. (7199). Mt. Desert, June 5, '37 (Br.).
A. MEDIOFASCIANA Clem. (7203). Bar Harbor, May 17–June 8 (Br.).
A. TINEANA Hbn. (7205). S. W. Harbor; Bar Harbor, June 20–July 11 (Br.). Larva feeds on poplar and various *Rosaceae*.

DICHORAMPHA Guenée

- D. n. sp. (7221.1). Bar Harbor, June 26–Aug. 13 (Br.).
D. SIMULANA Clem. (7222). S. W. Harbor, June 25–July 21 (Br.).
D. BITTANA Busck (7223). Sept. 1 (Br.).

HEMIMENE Hübner

- H. SIGNIFERA Heinr. (7237). Bar Harbor, June 6–July 6 (Br.).

SEREDA Heinrich

- S. LAUTANA Clem. (7241). Bar Harbor, May 1–16 (Br.).

GRAPTOLITHIA Hübner

- G. LIBERTINA Heinr. (7243). Robinson Mt. Swept from mountain cranberry, Aug. 31 (Br.).
G. PACKARDI Zell. (7244). June 4 (Br.). Bred ex. cherry June 28.
G. PRUNIVORA Walsh (7245). June 6–Aug. 14 (Br.).
G. INTERSTINCTANA Clem. (7254). Clover Seed Caterpillar. Mt. Desert, July 4–31 (Br.).

LASPEYRESIA Hübner

- L. PARMATANA Clem. (7267). Bar Harbor, Aug. 5–Aug. 20 (Br.).
L. POPULANA Busck (7275). Mt. Desert, May 22–July 31 (Br.).

MELISSOPUS Riley

- M. LATIFERREANUS Wlshm. (7300). Bar Harbor, July (Br.); Robinson Mt. Fairly common breeding in acorns of bear oak (Br.).

CARPOCAPSA Treitschke

- C. POMONELLA Linn. (7301). The Coddling Moth occurs generally but not in large numbers in June.

ECDYTOLOPIA Zeller

- E. INSITICIANA Zell. (7304). The larva causes gall-like lumps on the twigs of locust (*Robinia*) by boring under the bark. General.

TORTRICIDAE

COELOSTATHMA Clemens

- C. DISCOPUNCTANA Clem. (7307). July 16-Aug. 3 (Br.).

AMORBIA Clemens

- A. HUMEROSANA Clem. (7314). Corfield at light, May 30.

SPARGANOTHIS Hübner

- S. PETTITANA Rob. (7317). Corfield, July 2; July 21 (Br.).
 S. RETICULATANA Clem. (7323). N. E. Harbor, Sept. 4 (Minot); Bar Harbor, Aug. 16-Sept. 4 (Br.). The larva feeds on oak, maple, pear, rose, etc.
 S. RETICULATANA Clem. Var. (7323). Mt. Desert, Aug. 4-5 (Br.). This is the pale variety.
 S. IRROREA Rob. (7333). N. E. Harbor; Bar Harbor, June 27-Aug. 20 (Br.).
 S. XANTHOIDES Wlk. (7334). Bar Harbor, July 8-Aug. 16 (Br.).
 S. XANTHOIDES form BREVIORNATANA (7334a). Bar Harbor, July 19-24 (Br.).
 S. VIOLACEANA Rob. (7336). Mt. Desert, June 4-6 (Br.).
 S. UNIFASCIANA Clem. (7337). Bar Harbor, July 20-Aug. 6 (Br.).
 S. SULFUREANA Clem. (7349). Bar Harbor; Green Mt.; Mt. Desert, July 21-Aug. 21 (Br.). The larva feeds on willow, strawberry, cranberry, grape and blueberry. The leaves are fastened together flat by silk along the edges.
 S. LYCOPODIANA Kft. (7351). Bar Harbor, Aug. 8; Sea Wall Bog, Aug. 8 (Br.). Larva webs *Lycopodium*.

PLATYNOTA Clemens

- P. IDAEUSALIS Wlk. (7369). (*sentana* Clem.). Mt. Desert, July 6–Aug. 19 (Br.).

PANDEMIS Hübner

- P. LIMITATA Rob. (7373). S. W. Harbor, July 25 (Br.).

ARCHIPS Hübner

- A. PERSICANA Fitch (7378). Bar Harbor, June 15; Bar Harbor, June 27–Aug. 22 (Br.). The larva feeds on various plants.
- A. FERVIDANA Clem. (7383). The Oak Web-worm. Aug. 24 (Br.).
- A. CERASIVORANA Fitch (7384). S. W. Harbor; Eden, July 27–Aug. 1. The larvae are social, forming large ugly nests on the wild cherry.
- A. MELALEUCANA Wlk. (7397). Bar Harbor; N. E. Harbor, June 11–July 16. The larva feeds on *Trillium*.
- A. PURPURANA Clem. (7399). Green Mt., July 27. The larva feeds on geranium, etc.
- A. ROSACEANA Harris (7405). The Oblique-banded Leaf-roller. Bar Harbor, July 11; Bar Harbor, Aug. 22 (Br.). The larva feeds on rose, apple, etc.
- A. CONFLICTANA Wlk. (7407). Bar Harbor, July 6 (Br.).
- A. FUMIFERANA Clem (7408). The Spruce Bud Worm. Throughout the island and at times very injurious. It was especially abundant in 1914.

TORTRIX Linnaeus

- T. CLEMENSIANA Fern. (7411). Bar Harbor, July 5–Aug. 18 (Br.).
- T. CLEMENSIANA form NERVOSANA Kft. (7411). Mt. Desert, Aug. 5 (Br.).
- T. ALLENIANA Fern. (7415). Bar Harbor; S. W. Harbor bog, July 19–21 (Br.). The larva is a general feeder.



- T. PACKARDIANA* Fern. (7418). Bar Harbor, July 7–Aug. 1 (Br.).
- T. PERITANA* Clem. (7420). Bar Harbor, July 13–Sept. 25 (Br.).
- T. VIRESCANA* Clem. (7423). Bar Harbor, June 11–July 9 (Br.).
- T. AFFLICTANA* Wlk. (7439). Bar Harbor, May 17–26, also Sept. 15 (Br.).

EULIA Hübner

- E. MINISTRANA* Linn. (7442). Bar Harbor; N. E. Harbor; S. W. Harbor, June 15–July 15. The larva is a general feeder, folding the leaves of trees and shrubs.

ARGYROTAENIA Hübner

- A. VELUTINANA* Wlk. (7443). The Red-banded Leaf-roller. Bar Harbor, May 14–June 16.
- A. REPERTANA* Frmn. (7443.1). Bar Harbor, May 11–June 26 (Br.).
- A. PINATUBANA* Kft. (7445). Bar Harbor, May 11–June 12 (Br.).
- A. MARIANA* Fern. (7450). May 12–28 (Br.).
- A. QUERCIFOLIANA* Fitch (7452). Corfield, June 24–July 3. The larva feeds on oak.
- A. QUADRIFASCIANA* Fern. (7453). Bar Harbor, July 10 (Br.).

TORTRICODES Guenée

- T. FRAGARIANA* Busck (7456)? Det. McD. Aug. 9; Mating, Sept. 2 (Br.).

CNEPHASIA Curtis

- C. EDNANA* Kft. (7462). N. E. Harbor; Bar Harbor, June 29–Aug. 16 (Br.).

ARGYROTOXA Stephens

- A. BERGMANNIANA* Linn. (7468)? Bar Harbor, July 13, 1936 (Br.).

- A. ALBICOMAMA Clem. (7469). N. E. Harbor, Penikese, July 15–Aug. 10; Bar Harbor, July 10–29 (Br.). The larva feeds on rose.
- A. SEMIPURPURANA Kft. (7470). Bar Harbor, July 17–29 (Br.).
- A. CURVILANA Kft. (7471). Bar Harbor, July 4–19 (Br.).

PERONEA Curtis

- P. MACCANA Treit. (7473). Mt. Desert, Nov. 7 (Br.).
- P. NIGROLINEA var. FERRUGINICUTTANA Fern. (7475). Apr. 28 and Sept. 6 (Br.).
- P. LATIFASCIANA Haw. (7478). Bar Harbor, Aug. 28–Oct. 8 (Br.).
- P. OXYCOCCANA Pack. (7480). S. W. Harbor, May 25–Sept. 25 (Br.).
- P. VARIANA Fern. (7481). The Black-headed Bud-worm. N. E. Harbor, July 30–Aug. 15 (Minot). Bred from white spruce, Bar Harbor, July 21–Aug. 17 (Br.).
- P. CHALYBEANA Fern. (7482). Bar Harbor, Apr. 25 (Br.).
- P. HASTIANA Linn. (7484). Mt. Desert, April 21–Oct. 17 (Br.).
- P. CELIANA Rob. (7485). Mt. Desert, Sept. 22–Nov. 7 and April 26–May 8 (Br.).
- P. CELIANA var. ALBILINEANA Kft. (7485). Mt. Desert, Sept. 22–Nov. 7 and April–May (Br.).
- P. ROBINSONIANA Forbes var. (7490). May 11–Sept. 9 (Br.).
- P. FLAVIVITTANA Clem. (7491). Bar Harbor, Nov. 7 (Br.).
- P. FLAVIVITTANA form PERSPICUANA Rob. (7491)? Bar Harbor, Aug. 31 (Br.).
- P. FRAGARIANA Kft. (7494). Corfield at light, Oct. 6; Bar Harbor, Aug. 30–Oct. 3.
- P. INANA Rob. (7495). Sept. 9–Nov. 7 (Br.).
- P. BUSCKANA McD. (7496). Mt. Desert, May 10–Sept. 25 (Br.).
- P. MACULIDORSANA Clem. (7497). S. W. Harbor, May 25 (Br.); Ireson Hill woods, May 29; Bar Harbor, Sept. 1–25 (Br.).

- P. HUDSONIANA Wlk. (7500). Bar Harbor, Sept. 25-Oct. 9 (Br.).
- P. BOWMANANA McD. (7501). Mt. Desert, Oct. 3-18 (Br.).
- P. MINUTA Rob. (7502). The Yellow-headed Cranberry Worm. Mt. Desert, May 2-15 (Br.).
- P. LOGIANA Linn. (7503). Bar Harbor, Sept. 29-Oct. 15 (Br.).
- P. LOGIANA Linn. form TRISIGNANA Rob. (7503). Bred Aug. 27, Oct. 15 (Br.).
- P. NIVISELLANA Wlshn. (7504). Bar Harbor, May 23 and Aug. 16-Sept. 16, S. W. Harbor, Sept. 4 (Br.).
- P. CERVINANA Fern. (7505). N. E. Harbor, Sept. 20. Bred from birch.
- P. BRAUNANA McD. (7508). Mt. Desert, Sept. 18, Oct. 2 (Br.).
- P. KEARFOTTANA McD. (7509). S. W. Harbor, July 25 (Br.).
- P. FORBESANA McD. (7511). Bar Harbor, Sept. Bred from *Cornus canadensis*.
- P. FERRUGANA D. & S. (7513). Mt. Desert, Oct. 5 (Br.).
- P. SEMIANNULA Rob. (7514). Bar Harbor, July 17 (Br.).
- P. GALLICOLANA Clem. (7515). Bar Harbor, July 12 (Br.).

PHALONIIDAE

PHALONIA Hübner

- P. ATOMOSANA Busck (7520). Mt. Desert, Aug. 9-24 (Br.).
- P. sp. near ATOMOSANA Busck. Bar Harbor, Aug. 22, 1936.
- P. SMEATHMANNIANA Fabr. (7528). S. W. Harbor, June 27-July 21 (Br.).
- P. RUTILANA Hbn. (7536). The Juniper Web-worm. Mt. Desert, July 6-25 (Br.).
- P. SUBLEPIDANA Kft. (7551). Bar Harbor, July 21-30 (Br.).
- P. BISCANA Kft. (7552). Mt. Desert, May 11-Aug. 16 (Br.).
- P. AUREANA Busck (7557). Bar Harbor, Aug. 3, 1936 (Br.).
- P. BUNTEANA Rob. (7558). N. E. Harbor, July 31 (Minot). The larva feeds on *Lactuca*.
- P. MARLOFFIANA Busck (7562). Bar Harbor, July 28-Aug. 17 (Br.).

- P. TOXCANA Kft. (7563) ? Bar Harbor, Aug. 19, 1933 (Br.).
P. CONCINNATANA Kft. (7581). Bar Harbor, May 30, 1936 (Br.).
P. ALBIDANA Wlk. (*winniana* Kft.) (7584). Bar Harbor, June 3–July 23; Sea Wall Bog, June 8–12 (Br.).

PHARMACIS Hübner

- P. VITELLINANA Zell. (7608). N. E. Harbor, Eden, July 16–Sept. 5.

HYSTEROSIA Stephens

- H. CARTWRIGHTANA Kft. (7615)? July 18–23 (Br.).
H. BARACANA Busck (7621). Mt. Desert, July 20–25 (Br.).

CARPOSINIDAE

BONDIA Newman

- B. CRESCENTELLA Wlshm. (7624). Bar Harbor, May 11 (Br.).

COSSIDAE

ACOSSUS Dyar

- A. CENTERENSIS Lint. (7666). Bar Harbor, July 9 (Br.).

COSMOPTERYGIDAE

COSMOPTERYX Hübner

- C. CLEMENSELLA Staint. (7675). Bar Harbor, July 5–Aug. 3 (Br.).
C. GEMMIFERELLA Clem. (7676). July 15–Aug. 6 (Br.).
C. CLANDESTINELLA Busck (7688). June 30–July 18 (Br.).

BATRACHEDRA Stainton

- B. PRAEANGUSTA Haw. (7696). July 21–Aug. 2 (Br.).

CYPHOPHORA Herrich-Schaeffer

- C. ELOISELLA Clem. (7740). Sea Wall, July 2–18, '38 (Br.).

LYMNAECIA Stainton

L. PHRAGMITELLA Staint. (7744). Found around swamps the middle of July, but taken earlier. The larvae live in the seed-heads of the cat-tail, causing them to fluff out.

MOMPHIA Hübner

M. BREVIVITTELLA Clem. (7748). May 28–June 6 and Oct. 6–8 (Br.).

M. STELLELLA Busck (7749). Sea Wall, April 25–July 18.

M. UNIFASCIELLA Cham. (7758). Mt. Desert, May 24–July 26, and Oct. 6 (Br.).

GELECHIIDAE

METZNERIA Zeller

M. LAPPELLA Linn. (7780). The Triple-spotted Yellow Burdock Moth. Mt. Desert, Aug. 5–12 (Br.).

PTYCERATA Ely

P.sp. Bar Harbor, July 7, '34, June 28, '35.

ARISTOTELIA Hübner

A. PULLUSELLA Cham. (7811). Bar Harbor, July 30–Aug. 1. Taken on bogs.

A. ABSCONDITELLA Wlk. (7814). Bar Harbor, July 7–19 (Br.).

A. QUINQUEPUNCTELLA Busck (7817). Bar Harbor, July 7, 1936.

A. RUBIDELLA Clem. (7818). Bar Harbor, July 10–31 (Br.).

A. ROSEOSUFFUSELLA Clem. (7834). Gt. Heath, Aug. 12–19 (Br.).

A. sp. Bar Harbor, July 25, 1935.

NANNODIA Heinemann

N. STIPELLA NAEVIFERELLA Dup. (7853.1). Bar Harbor, July–Sept. Bred from mines on *Chenopodium*.

CHRYSOPORA Clemens

C. HERMANNELLA Fabr. (7855). Blotch-miner of *Chenopodium*. Bred Aug. 12–20 (Br.).

GLAUCE Chambers

- G. PECTENALAEELLA Cham. (7859). Bar Harbor, June 30–July 7 (Br.).

EVIPPE Chambers

- E. PRUNIFOLIELLA Cham. (7867). Bar Harbor, July 4 (Br.).
E. LEUCONOTA Zell. (7868). Bar Harbor, July 18 (Br.).

RECURVARIA Haworth

- R. APICITRIPUNCTELLA Clem. (7880). Mt. Desert, July 2–14 (Br.).
R. THUJAELLA Kft. (7887). Arbor-vitae Leaf-miner. Bred June 11–July 26 (Br.).
R. PICEAELLA Kft. (7892). Bred from spruce, July 1–7 (Br.).

EUCORDYLEA Dietz

- E. ATRUPECTELLA Dietz (7908). Bar Harbor, July 30–Sept. 7 (Br.). Bred from spruce.

EXOTELEIA Walgren

- E. PINIFOLIELLA Cham. (7913). The Pine Leaf-miner. Bar Harbor, June 20–July 18 (Br.). Bred from *P. rigida* and sometimes *P. resinosa*.

EPITHECTIS Meyrick

- E. ATTRIBUTELLA Wlk. (7923). Bar Harbor, July 25 (Br.).
E. SYLVICOLELLA Busck (7924)? Bar Harbor, July 21, 1938 (Br.).

TELPHUSA Chambers

- T. BASIFASCIELLA Zell. (7934). Bar Harbor, June 3–30 (Br.).
T. BELANGERELLA Cham. (7937). Bred ex. *Myrica gale*. Gt. Heath, June 2–10, '38 (Br.).
T. QUERCIELLA Cham. (7942). Bar Harbor, June 23–July 11 (Br.).
T. FUSCOPUNCTELLA Clem. (7947). Bar Harbor, June 24, 1933; Mt. Desert, June 24–July 19 (Br.).

T. LONGIFASCIELLA Clem. (7951). Bar Harbor, June 20, 1937.

T. BICOSTOMACULELLA Cham. (7954). Bar Harbor, July 27–Aug. 2 (Br.).

GELECHIA Hübner

G. TRIALBAMACULELLA Cham. (7965). N. E. Harbor (Minot); Bar Harbor, June 24–July 3 (Br.). The larva feeds on locust, oak, sweet fern, and huckleberry, living in a nest between two leaves.

G. VIDUELLA Fabr. (7977). S. W. Harbor, June 5–July 4 (Br.).

G. LUGUBRELLA Fabr. (7980). Bar Harbor, July 10–Aug. 8 (Br.).

G. sp. near *ALBISPARSELL* Cham. Bar Harbor, July 21 (Br.).

G. CONTINUELLA Zell. (8005). Bar Harbor, May 26–Aug. 26 (Br.).

G. MEDIOFUSCELLA Clem. (8020). Bar Harbor, May 30–July 1 (Br.).

G. WALSINGHAMI Dietz (8021). Mt. Desert, Aug. 2 (Br.).

G. LONGICORNIS Curt. (8023). Sea Wall, May 25–June 10 (Br.).

G. RILEYELLA Cham. (8057)? Mt. Desert, June 13, 1932.

G. LYNCEELLA Zell. (8066). Bar Harbor, July 30, 1937 (Br.).

G. NIGRIMACULELLA Busck (8078). Mt. Desert, July 14–Oct. 9 (Br.).

G. SEROTINELLA Busck (8082). Bar Harbor, June 24–Sept. 1 (Br.).

G. VERNELLA Murt. (8089)? July 29–Aug. 13 (Br.).

G. FLUVIALELLA Busck (8106). Bar Harbor, July 3–19 (Br.).

G. sp. Several other undetermined or undescribed species have been collected.

GNORIMOSCHEMA Busck

G. SEPTENTRIONELLA Fyles (8151). Bar Harbor, Aug. 29–Sept. 9 (Br.).

G. GALLAESOLIDAGINIS Riley (8153). Forms an elliptical gall on *Solidago canadensis*. Generally distributed June–July.

- G. GALLAEASTERIELLA Kell. (8156). Sea Wall Bog, Aug. 16–26 (Br.). The larva forms a gall on aster.
G. GALLAEDIPLOPAPPI Fyles (8157). Bar Harbor, Aug. 7, 1933 (Br.).
G. ALARICELLA Busck (8169)? Bar Harbor, Aug. 28 (Br.).
G. BATANELLA Busck (8191). Bar Harbor, July 24 (Br.).
G. DETERSELLA Clem. (8194). Bar Harbor, Oct. 6 (Br.).
G. SACCULICOLA Braun (8200). Bar Harbor, Sept. 4–8, '32 (Br.).
G. sp. near GALLAESOLIDAGINIS Riley. S. W. Harbor bog, Sept. 6 (Br.).
G. sp. near AXENOPIS Meyr. Bar Harbor, July 5 (Br.).
G. sp. Bar Harbor, Aug. 20 (Br.).
G. sp. Bar Harbor, Aug. 24 (Br.).

PHTHORIMAEA Meyrick

- P. OPERCULELLA Zell. (8214). Bar Harbor, June 14–July 31.

DUVITA Busck

- D. NIGRATOMELLA Clem. (8258). Bar Harbor, July 7 (Br.).
D. TAHAVUSELLA Forbes (8259). Bar Harbor, June 16 Aug. 26 (Br.).

ANACAMPSIS Curtis

- A. CONCLUDELLA Wlk. (8279). Mt. Desert, June 16–Aug. 11.
A. INNOCUELLA Zell. (8280). Mt. Desert, July 10–Aug. 10 (Br.). Reared from aspen.

STOMOPTERYX Heinemann

- S. PALPILINELLA Cham. (8258). Bar Harbor, July 16, 1938 (Br.).

THELYASCETA Meyrick

- T. NOSTRIGELLA Cham. (8285). Mt. Desert, June 20.

TELEPHILA Meyrick

- T. VACCINIELLA Busck (8290). Mt. Desert, Sept. 2–10.

DICHOMERIS Hübner

- D. LIGULELLA form POMETELLA Harris (8296). Tremont, Aug. 16-17 (Br.).
- D. MARGINELLA Fabr. (8299). The Juniper Web-worm. Bar Harbor, July 10-23 (Br.).
- D. PUNCTIPENNELLA Clem. (8305). July 14-Aug. 17 (Br.).
- D. BIPUNCTELLA Wlshm. (8306). Bar Harbor, April 26-Oct. 21 (Br.).

TRICHOTAPHE Clemens

- T. TRIMACULELLA Cham. (8313)? Bar Harbor, June 30 (Br.).
- T. FERNALDELLA Busck (8314). Mt. Desert, May 19 (Br.).
- T. FLAVOCOSTELLA Clem. (8319). Eden; Bar Harbor, July 27-Aug. 5 (Br.). The larva feeds on *Solidago*.
- T. SETOSELLA Clem. (8322). Bar Harbor, July 26-Aug. 31 (Br.).
- T. LEUCONOTELLA Busck (8329)? Bar Harbor, July 3-Aug. 12 (Br.).
- T. JUNCIDELLA Clem. (8330). N. E. Harbor, July 4 (Minot). The larva is a leaf-roller on aster, goldenrod, etc.
- T. LEVISELLA Fyles (8331). Mt. Desert, July 18-Aug. 16 (Br.).
- T. n. sp. Bar Harbor, July 18 (Br.).
- T. n. sp. July 22-Aug. 7 (Br.).

OECOPHORIDAE

DASYCERA Stephens

- D. NEWMANELLA Clem. (8353). Mt. Desert, July 4 (Br.).

DECANTHA Busck

- D. BORKHAUSENI Zell. (8358). Bar Harbor, July 28 (Br.).

SCHIFFERMUELLERIA Hübner

- S. ARGENTICINCTELLA Clem. (8361). Bar Harbor, July 29, (Br.).

BORKHAUSENIA Hübner

- B. ASCRIPTELLA Busck (8369). Bar Harbor, July 19-Aug. 12 (Br.).

MACHIMIA Clemens

- M. TENTORIFERELLA Clem. (8383). The larvae feed on oak, cherry, maple, etc., forming a web on the under side of the leaves. Bar Harbor, Aug. 31–Oct. 3.

EUMEYRICKIA Busck

- E. TRIMACULELLA Fitch (8390). Bar Harbor, June 28–Sept. 4 (Br.).

DEPRESSARIA Haworth

- D. ALIENELLA Busck (8393). Penikese; Bar Harbor, Aug. 20–Sept. 23 (Br.). The larva feeds on *Artemisia*.
D. HERACLIANA DeGeer (8404). The Parsnip Web Worm. Eden. Larva and pupa, July 17, imago, July 30. Common on the cow parsnip; the young larvae feed on the leaves and the larger larvae bore into the stalks to pupate.
D. GROTEELLA Rob. (8405). Bar Harbor, July 17–Aug. 30 (Br.).

AGONOPTERYX Hübner

- A. ATRODORSELLA Clem. (8409). N. E. Harbor (Minot), Bar Harbor, Apr. 29–Sept. 6 (Br.). The larva feeds on *Bidens*, folding the leaf lengthwise.
A. SABULELLA Wlshm. (8412). Apr. 28–May 11 (Br.).
A. CLEMENSELLA Cham. (8430). Bar Harbor, Apr. 27 and Oct. 10 (Br.); Breakneck Road, May 18.
A. SCIADOPA Meyr. (8434). Bar Harbor, March 24–31 (Br.).
A. PULVIPENNELA Clem. (8440). N. E. Harbor, Sept. 5 (Minot). The larva feeds on *Solidago* and *Eupatorium*, folding the leaf lengthwise. The commonest overwintering *Agonopteryx* in buildings.
A. FERNALDELLA Wlshm. (8443). Bar Harbor, July 18–Sept. 22 (Br.).
A. ROBINIELLA Pack. (8448). Salisbury Cove, July 27. The larvae feed on locust, *Robinia*.
A. THELMAE Clarke (8448.1). Corfield, at light, Sept. 23.

EPIGRAPHIA Stephens

- E. PACKARDELLA Clem. (8459). Corfield; Mt. Desert, May 12-June 22 (Br.).

SEMIOSCOPIA Hübner

- S. INORNATA Wlshml. (8460). Mt. Desert, Apr. 27-June 1 (Br.).
S. MEGAMICRELLA Dyar (8461). Mt. Desert, March 30 (Br.).
S. AURORELLA Dyar (8463). Bar Harbor, May 2 (Br.).
S. ALLENELLA Wlshml. (8464). N. E. Harbor; Bar Harbor, June 6-Aug. 21 (Br.). The larva feeds on oak.

CRYPTOLECHIA Zeller

- C. REFLEXELLA Clem. (8467). Mt. Desert, May 24.
C. OBSOLETELLA Zell. (8471). Mt. Desert, July 11.
C. FAGINELLA Cham. (8472). June 12-July 2 (Br.). Reared from beech.
C. QUERCICELLA Clem. (8473). June 23 (Br.).

BLASTOBASIDAE

BLASTOBASIS Zeller

- B. near SAGITELLA Dietz (8481). Bar Harbor, July 5-26 (Br.).
B. VILLELLA Busck (8483). Bar Harbor, June 2-July 7 (Br.).

VALENTINIA Walsingham

- V. GLANDULELLA Riley (8488). The Acorn Moth. Bar Harbor, July 7-20 (Br.).
V. near QUAINANCELLA Dietz (8490). Bar Harbor, July 7-Aug. 12 (Br.).

EURESIA Dietz

- E. PULCHELLA Dietz (8496)? Bar Harbor, June 28 (Br.).

HOLCOCERA Clemens

- H. DIVES Dietz (8500)? Bar Harbor, emerged May 24 (Br.).
H. PURPUROCOMELLA Clem. (8505). Bred June 21–July 9 (Br.). A webber of *Cornus*.
H. CHALCOFRONTELLA Clem. (8511). Bar Harbor, April 21–July 18 (Br.). Larva frequents sumac heads. Reared on white spruce and fir.
H. CONFLUENTELLA Dietz (8512)? Bar Harbor, July 10 (Br.).
H. AUGUSTI Heinr (8522)? Bar Harbor, bred from aphid-galled spruce and spruce duff (Br.).
H. ELYELLA Dietz (8527)? Bar Harbor, July 17–Aug. 6 (Br.).

PIGRITIA Clemens

- P. LATICAPITELLA Clem. (8556)? Bar Harbor, June 23–July 19 (Br.).

STENOMIDAE

STENOMA Zeller

- S. SCHLAEGERI Zell. (8582). N. E. Harbor (Minot); Bar Harbor, June 27–July 16 (Br.). The larva feeds on oak.
S. ALGIDELLA Wlk. (8585). N. E. Harbor (Minot); Bar Harbor, July 1–28 (Br.). The larva feeds on oak, maple, etc.

GLYPHIPTERYGIDAE

ANTHOPHILA Haworth

- A. PARINA Clem (8644). Bar Harbor, April 25–Aug. 12 (Br.). Bred from apple.

ALLONONYMA Busck

- A. VICARIALIS Zell. (8645). Echo Lake, July 29 (Alexander); S. W. Harbor, Sept. 6.
A. DIANA Hbn. (8646). Bar Harbor, April & May and again in Sept. The moth at pussy willows in the spring.

CHOREUTIS Hübner

- C. VIRGINIELLA Clem. (8649a). Aug. 16–Sept. 13 (Br.).
C. ONUSTANA Wlk. (8663). N. E. Harbor, July 1 (Minot);
Mt. Desert, June 10–Aug. 11 (Br.).

GLYPHIPTERYX Hübner

- G. IMPIGRITELLA Clem. (8670). Bar Harbor, June 10–Sept.
1 (Br.).
G. SAURODONTA Meyr. (8674). Bar Harbor, Sept. 11, S. W.
Harbor, May 25 (Br.).

AEGERIDAE

BEMBECIA Hübner

- B. MARGINATA Harris (8684). The Blackberry Borer. Seal
Harbor, Aug. 17 (Br.). The larva bores in the stems of
blackberry.

ALCATHOË Hy. Edwards

- A. CAUDATA Harris (8685). Bar Harbor, Aug. 9–21 (Br.).
Bred from *Clematis*, in the roots of which they breed.

AEGERIA Fabricius

- A. TIBIALIS Harris (8690). Pupal case from poplar, Section
23.

SYNANTHEDON Hübner

- S. CORNI Hy. Edw. (8705). Dry Mt. (Sanford), July 10–17;
Bar Harbor, July 21–23.
S. TIPULIFORMIS Linn. (8708). The Currant Borer. Bar
Harbor; Seal Harbor (D. Rockefeller); Corfield, July 26–
Aug. 25. The larva feeds on the stems of *Ribes*.
S. FULVIPES Harris (8718). Corfield; Green Mt., June 17–
25.
S. PICTIPES G. & R. (8720). S. W. Harbor; Bar Harbor;
Green Mt., June 26–July 25. The larva bores in cherry,
shadbush, etc. Known as the Lesser Peach-tree Borer.

- S. ALBICORNIS Hy. Edw. (8723). Penikese, Aug. 10; Bar Harbor, June 26–July 29, '32 from the flowers of *Spiraea latifolia* (Br.). Rare. The larvae feed upon the trunks and shoots of willows.
- S. ACERNI Clem. (8727). Maple Borer. Corfield, July 25; Bar Harbor, July 21 (Br.). The larvae tunnel in the sap wood of maples.
- S. PYRI Harris (8729). S. W. Harbor, June 26. Pear and apple trees are the habitat of this larva. It is called the Pear Borer.
- S. SCITULA Harris (8731). Bar Harbor, July 22–30 (Br.). The larvae bore into oak, oak galls, and willows.

ALBUNA Hy. Edwards

- A. PYRAMIDALIS Wlk. (8789). S. W. Harbor; Bar Harbor, June 26–July 11.

PARANTHRENE Hübner

- P. TRICINCTA Harris (8792). Bred from a gall on a poplar limb, July 8 (Br.).

HELIODINIDAE

SCHRECKENSTEINIA Hübner

- S. FESTALIELLA Hbn. (8827). May 10–July 10 (Br.).

HARPIPTERYX Hübner

- H. DENTIFERELLA form CANARIELLA Wlshm. (8845). Bar Harbor, Aug. 14 (Br.).
- H. XYLOSTELLA Linn. (8846). The European Honeysuckle Leaf-roller. Mt. Desert, July 25 (Br.); Corfield at light, Aug. 4.

PLUTELLA Schrank

- P. MACULIPENNIS Curtis (8878). Diamond-back Moth. Bar Harbor, July 5–Sept. 1 (Br.). Bred from rocket plant and other crucifers.

YPONOMEUTIDAE

ARGYRESTHIA Hübner

- A. FREYELLA Wlshn. (8885). Arborvitae Leaf-miner. July (Salman); Bar Harbor, June 16–July 26 (Br.).
- A. sp. near FREYELLA. Bar Harbor, June 20–July 12 (Br.).
- A. CALLIPHANES Meyr. (8889). Bred July 20–Aug. 14 (Br.).
- A. GOEDARTELLA Linn. (8890). N. E. Harbor (Minot); Bar Harbor, Aug. 11–Sept. 13. The larvae live in the catkins of birch and alder.
- A. OREASELLA Clem. (8893). S. W. Harbor, July 15; Bar Harbor, July 4–20 (Br.).
- A. CONJUGELLA Zell. (8903). Bar Harbor, June 8 (Br.).
- A. THUIELLA Pack. (8914). Bar Harbor, bred June 14–July 16 (Br.). The larva mines the leaves of the arborvitae.

SWAMMERDAMIA Hübner

- S. CASTANEA Busck (8924). Mt. Desert, June 8–Aug. 9 (Br.).

OCNEROSTOMA Zeller

- O. PINIARIELLA Zell. (8926). The European Pine Leaf-miner. Bar Harbor, July 29 (Br.).

SCYTHRIDAE

SCYTHRIS Hübner

- S. IMPOSITELLA Zell. (8951). Bar Harbor, June 22–July 6 (Br.).
- S. EBORACENSIS Zell. (8953). Mt. Desert, Aug. 2–4; Bar Harbor, July 2–Sept. 4 (Br.). The host plant is thistle.
- S. TRIVINCTELLA Zell. (8967). Bar Harbor, July 20, 1936 (Br.).

HELOZELIDAE

ANTISPILA Hübner

- A. AMPELOPSIELLA Cham. (8978). Mt. Desert, June 20–July 14 (Br.).
- A. sp. Mt. Desert, May 23 (Br.).
- A. sp. Mt. Desert, July 10–13 (Br.).

COPTODISCA Walsingham

- C. KALMIELLA Dietz (9000). Bar Harbor (Br.); S. W. Harbor, July 21–Aug. 25.

ELACHISTIDAE

ELACHISTA Treitschke

- E. ORESTELLA Busck (9009). Sea Wall, July 5–9, Bar Harbor, July 21 (Br.).
E. ARGENTOSA Braun (9016). Bar Harbor, July 28–Aug. 6 (Br.).
E. PRAEMATURELLA Clem. (9021). Bar Harbor, June 8–Aug. 31 (Br.).
E. CUCULLATA Braun (9044). Bar Harbor, June 28–July 2 (Br.).
E. sp. Bar Harbor, July 1 (Br.).
E. sp. Mt. Desert, June 24 (Br.).

COLEOPHORIDAE. The Case Bearers

COLEOPHORA Hübner

- C. ALBOVANESCENS Heinr. (9060). Bar Harbor, July 8 (Br.).
C. ATLANTICA Heinr. (9067). Bar Harbor, May 23 (Br.). Bred from poplar.
C. LIMOSIPENNELLA Dup. (9088). Bred from white birch. Bar Harbor, June 11–July 27 (Br.).
C. ALNIELLA Heinr. (9090). The Bowl, bred from alder, July 19, 1932 (Br.).
C. CORUSCIPENNELLA Clem. (9092). Eden; Bar Harbor, June 4–July 29 (Br.).
C. OCCIDENTIS Zell. (9096). Bred on *Crataegus*, apple and mountain ash, July 4–20 (Br.). It is known as the Cigar Case-Bearer.
C. SALMANI Heinr. (9097). Bred from white and gray birch and alder. June 25–Aug. 1 (Br.). It is sometimes common on birch. It is parasitized by *Spilochalcis torvina* and *Epiurus indigator* Cr.

- C. LARICELLA Hbn. (9098). Bred June 19–July 30 (Br.).
 C. CINERELLA Cham. (9103). Bred from *Populus tremuloides*
 and white birch, June 4–July 5 (Br.).
 C. POLEMONIELLA Brahm (9126)? July 29–Aug. 14 (Br.).
 C. sp. near HEINRICHELLA McD. & DUPLICIS Braun. Bar
 Harbor, July 29–Aug. 28 (Br.).
 C. sp. Bar Harbor, Aug. 5 (Br.).

GRACILLARIIDAE

LITHOCOLLETIS Hübner

- L. OSTRYAEOFOLIELLA Clem. (9178). Mt. Desert, Aug. 15 (Br.).
 L. MARTIELLA Brahm (9185). Bar Harbor, July 3–Aug. 9
 (Br.). Mines birch.
 L. DIVERSELLA Brahm (9188). Bar Harbor. Bred from un-
 derside mines on *Gaylussacia baccata* in Oct. (Br.).
 L. SCUDDERELLA F. & B. (9195). Bar Harbor. Bred from
 mines on willow in Oct. (Br.).
 L. sp. near INCANELLA Wlshm. Bred June 3–16 (Br.).
 Blotch-miner on alder.
 L. sp. near PROPINQUINELLA Braun. Bar Harbor. Mines
 common on beech in late summer; emerges May–June (Br.).
 L. BASISTRIGELLA Clem. (9214). Bar Harbor. Mines in Oct.
 on oak; moths in the spring.
 L. OSTENSACKENELLA Fitch (9218). Blotch-miner of *Robinia*.
 Bred June 28–July (Br.).
 L. SALICIFOLIELLA Clem. (9225). Blotch-miner of willow.
 Bar Harbor, Sept. 12 (Br.).
 L. TREMULOIDIELLA Braun (9226). Bar Harbor, July 28–Aug.
 20 (Br.). Bred from *Populus tremuloides*.
 L. FLETCHERELLA Brahm (9252)? Bar Harbor. Bred from
 mines in oak (Br.).
 L. ARCUELLA Braun (9253). Blotch-miner of oak. Bred
 June 1–14 (Br.).
 L. BETULIVORA Wlshm. (9254). Bar Harbor, June–July (Br.).
 A blotch-miner in white birch leaves.

- L. BETHUNEELLA Cham. (9256). Bred from oak, early June (Br.).
- L. PICTURATELLA Brahm (9257). Bar Harbor, June 23-24 (Br.). Bred from mines on *Myrica carolinensis*.
- L. OBSTRICTELLA Clem. (9261)? Bar Harbor. Bred from oak (Br.).
- L. CORYLISELLA Cham. (9262). Bred from *Corylus rostrata*, Bar Harbor, June 13-28 (Br.).
- L. ACERIELLA Clem. (9265). Blotch-miner of Maple. Bar Harbor, June 17-July 7 (Br.).
- L. HAMAMELIELLA Busck (9266). Bred from *Hamamelis virginiana*, June 17-24 (Br.).

MARMARA Clemens

- M. SALICTELLA Clem. (9275)? Mt. Desert, July 12 (Br.). Mines willow bark.

ACROCERCOPS Wallengren

- A. ASTERICOLA F. & B. (9300). May 23-Aug. 14 (Br.).

PHYLLOCNISTIS Zeller

- P. POPULIELLA Cham. (9308). Bar Harbor, July 29-Aug. 13 (Br.). The larva mines the leaves of poplars, making the beautiful serpentine markings.

CALLISTO Stephens

- C. GUTTEA Haw. (9330). Mt. Desert, June 21 (Br.).
- C. KALMIELLA Dietz (9331). Sea Wall Bog, July 6 (Br.).
- C. CRATAEGIFOLIELLA Clem. (9334). Bar Harbor, Aug. 11-16 (Br.).
- C. CONSPICUELLA Dietz (9336)? Bar Harbor, Aug. 4 (Br.).

GRACILLARIA Haworth

- G. CORNUSELLA Ely (9356). Mt. Desert, June 16 (Br.).
- G. BIMACULATELLA Ely (9360). Bar Harbor, July 7 (Br.).
- G. VIOLACELLA Clem. (9367). Bar Harbor, Aug. 6 (Br.).

- G. *PACKARDELLA* Cham. (9369). Bar Harbor, Aug. 2 (Br.).
 G. *STIGMATELLA* Fabr. (9375). Mt. Desert, July 7–Aug. 18 (Br.). Larvae live on willow and poplar.
 G. *ALNIVORELLA* Cham. (9391). Mt. Desert, Aug. 20–Nov. 4 (Br.).
 G. *ALNIVORELLA* var. *ALNICOLELLA* Cham. (9391a). Bar Harbor, May 11 (Br.).
 G. *ALNIVORELLA* var. *PULCHELLA* Clem. (9391b). Bar Harbor, Sept. 9 (Br.).
 G. *ALNIVORELLA* var. *SANGUINELLA* Bent. (9391c). Mt. Desert, May 12–July 23 (Br.).
 G. *CUCULIPENNELLA* Hhn. (9398). Bred from ash. May 20–Oct. 9 (Br.).
 G. *SYRINGELLA* Fabr. (9398.1). Bred May 22–Sept. (Br.) On lilac.
 G. sp. Forbes Aug. 17 (Br.).

OPOSTEGIDAE

OPOSTEGA Zeller

- O. *NONSTRIGELLA* Cham. (9403)? Bar Harbor, July 4 (Br.).

LYONETHIDAE

LYONETIA Hübner

- L. *SPECULELLA* Clem. (9419). July 5 (Br.).
 BUCCULATRIX Zeller. The Ribbed-Cocoon Makers
 B. *FUSICOLA* Braum (9430)? July 7–11 (Br.).
 B. *CUNEIGERA* Meyr. (9433). Bar Harbor, July 6 (Br.).
 B. *CORONATELLA* Clem. (9442)? June 10 (Br.).
 B. *CANADENSISELLA* Cham. (9448.1). The Birch Leak Skeletonizer. Bred June 3–July (Br.).
 B. *AINSLIELLA* Murt. (9452). Bred from *Quercus borealis* (Br.).
 B. sp. near *AGNELLA* Clem. Bar Harbor, July 17 (Br.).
 B. sp. near *ANGUSTATA* F. & B. Bar Harbor, July 10 (Br.).
 B. sp. near *MAGNELLA* Cham. July 11–Aug. 3 (Br.).

TISCHERIIDAE

TISCHERIA Zeller

- T. CITRINIPENNELLA Clem. (9487). Bar Harbor, June 25 (Br.).
- T. SOLIDAGINIFOLIELLA Clem. (9496). Bar Harbor, Aug. 16–27 (Br.). Bred from blotch mines on *Solidago*.
- T. MALIFOLIELLA Clem. (9508). Mt. Desert, July 8, '38 (Br.).
- T. AENEA F. & B. (9509). On blackberry, Aug. 19–Sept. (Br.). Blotch miner on blackberry.
- T. sp. Bar Harbor, Aug. 27 (Br.).

PSYCHIDAE

HYALOSCOTES Butler

- H. SHEPPARDI Frmm. (9533.1). Newport Meadow. Stick-covered case in August (emerges June–July).

SOLENOBIA Zeller

- S. WALSHELLA Clem. (9539). Many of them crawling with their cases on the laboratory windows latter part of Sept. Bred May 29 (Br.). The larvae live on lichens and the females are wingless.

TINEIDAE

MYRMECOZELA Zeller

- M. EFFRENATELLA Clem. (9587). N. E. Harbor, (Minot); Bar Harbor, July 16–Aug. 14 (Br.).

SCARDIA Treitschke

- S. APPROXIMATELLA Dietz (9623). Bar Harbor, July 17, 1938 (Br.).

MONOPIS Hübner

- M. RUSTICELLA Hbn. (9630). Bar Harbor, May 10–July 28 (Br.). Bred from swallow's nest.
- M. BIFLAVIMACULELLA Clem. (9631). N. E. Harbor, Aug. 22 (Minot); Bar Harbor, Aug. 22–Sept. 20 (Br.).

- M. MONACHELLA Hbn. (9633). Eden, Aug. 7; Bar Harbor, July 20 (Br.).
M. DORSISTRIGELLA Clem. (9634). Bar Harbor, July 16-18 (Br.).
M. IRRORELLA Dietz (9636). Bar Harbor, June 12 (Br.).

CHOROPLECA Durrant

- C. VISALIELLA Cham. (9640). Mt. Desert, June 28-July 7 (Br.).

TINEA Linnaeus

- T. MISELLA Zell. (9641). Bar Harbor, June 17-Aug. 18 (Br.).
T. FUSCIPUNCTELLA Haw. (9643). Bar Harbor, July 21 (Br.).
T. TRIMACULELLA Cham. (9640). Bred from swallow's nest May 10-July 4 (Br.).
T. CANARIELLA Clem. (9650)? Bar Harbor, July 4; bred from swallow's nest.
T. GRUMELLA Zell. (9652). Bar Harbor, July 1, 1935 (Br.).
T. PELLIONELLA Linn. (9653). The Fur Moth or Old-fashioned Clothes Moth. Common. Bar Harbor, May 31-July 27 (Br.).
T. CROCEOVERTICELLA Cham. (9659). Bar Harbor, July 28-Aug. 4 (Br.).
T. OPHRIONELLA Dietz (9666). Bred from birch trunk, July 17 (Br.).
T. RILEYI Dietz. (9672). Bar Harbor, July 18-Aug. 10 (Br.).
T. ARCELLA Fabr. (9676). July 1-Aug. 3 (Br.).
T. AUROPULVELLA Cham. (9677). Bar Harbor, June 25, 1931 (Br.).
T. TYLODES Meyr. (9679). Mt. Desert, Aug. 11, 1933 (Br.). Larvae live under bark of dead alder.
T. GRANELLA Linn. (9686). The European Grain-Moth. In nest of swallow, July 31-Aug. 8 (Br.).
T. CLOACELLA Haw. (9687)? Bar Harbor, May 26-July 29 (Br.).

TINEOLA Herrich-Schaeffer

T. BISELLIELLA Hum. (9695). The Clothes Moth. Common.

HOMOSETIA Clemens

H. ARGENTINOTELLA Cham. (9704)? Bar Harbor, July 18-23 (Br.).

H. MACULATELLA Dietz (9710)? Bar Harbor, July 29 (Br.).

OENOE Chambers

O. HYBROMELLA Cham. (9718). Mt. Desert, July 18 (Br.).

NEPTICULIDAE

NEPTICULA von Heyden

N. POPULETORUM F. & B. (9775? June 7-July 4 (Br.). About poplar.

N. PALLIDA Braun (9777)? July 28-Aug. 20 (Br.).

N. sp. near PALLIDA Braun. Bar Harbor, June 28, 1933.

N. sp. Bar Harbor, July 15-Aug. 15 (Br.).

N. sp. Bar Harbor, June 18, 1938.

N. sp. S. W. Harbor bog, July 25 (Br.).

ECTOEDEmia Busck

E. POPULELLA Busck (9783). Bar Harbor, Aug. 2 (Br.).

INCURVARIIDAE

PARACLEMENSIA Busck

P. ACERIFOLIELLA Fitch (9817). Bred from birch June 5 (Br.).

EUDARCIA Clemens

E. SIMULATRICELLA Clem. (9821). Bar Harbor, Aug. 14 (Br.).

ADELA Latreille

A. RIDINGSSELLA Clem. (9839). Corfield, June 13; Bar Harbor, July 11 (Br.).

A. PURPUREA Wlk. (9844). The moths of this genus are remarkable for the great length of their antennae in proportion to their size. Bar Harbor, April 26-June 9 (Br.).

ERIOCRANIDAE

ERIOCRANIA Zeller

E. sp. Bar Harbor, Apr. 25, 1935 (Br.).

MICROPTERYGIDAE

EPIMARTYRIA Walsingham

E. AURICRINELLA Wislm. (9856). Long Pond, July 27; Bar Harbor, June 30 (Br.).

HEPIALIDAE. The Ghost Moths

STHENOPIS Packard

S. ARGENTEOMACULATUS Harris (9858). The Silver-spotted Ghost Moth is a crepuscular form. The larva feeds upon the roots of alder. But two specimens taken, both at light, Corfield, June 28 and July 12. They show marked variation in shading and size.

HEPIALUS Fabricius

H. GRACILIS Grt. (9871). Bar Harbor, July 27-Aug. 5. Laboratory Aug. 3-15.

Order DIPTERA

PTYCHOPTERIDAE. The False Crane Flies

Look carefully in foliage around greenhouses and nurseries where there are compost heaps.

PTYCHOPTERA Meigen

P. RUFOCINCTA O. S. Bar Harbor, July 21-24; Echo Lake, Sept. 1-4 (Alexander).

BITTACOMORPHA Westwood

B. CLAVIPES Fab. "Phantom crane-fly." Bar Harbor, July 21-26; Echo Lake, Sept. 1-14 (Alexander).

BITTACOMORPHELLA Alexander

B. JONESI Johns. Long Pond, July 16; foot of Pickett's Mt., July 21. Section 28, July 30.

TRICHO CERIDAE. The Winter Crane Flies

Most numerous in Spring and Autumn when they swarm in the open. Breed in decaying potatoes and the like.

TRICHO CERA Meigen

T. HIEMALIS DeGeer. Corfield, Oct.

TIPULIDAE. The Crane Flies

TIPULINAE

In 1926 Dr. C. P. Alexander of Amherst, Mass., visited the Island, stopping at Southwest Harbor, and found it "certainly one of the richest and most remarkable faunas anywhere in the world." For that reason, most careful collecting has been done in this family, and Doctor Alexander and our friend, the late Walter H. Harrison, made trips to the Island for several years. They, Dr. Brower and the writer have collected together and separately, our goal being 200 species, for there are but three other restricted areas in the world where that number have been taken. We have reached it, and had some happy days in doing it. The letter (J) is for Johnson, and the other three are represented by their initials.

In the Occasional Papers of the Boston Society of Natural History, Vol. V, pp. 223-231, January 12, 1937, being part of the second Supplementary List, Doctor Alexander gives many records of species taken on the Island. To combine them with the list below would be confusing, and reference is therefore made to this paper, particularly because Doctor Alexander discusses some of the habitats, which should be read in connection with the listed species.

TANYPTERA Latreille

- T. FRONTALIS (O. S.). Great Head, alt. 80 ft., June 15 (A).
Not captured, but no doubt of identity.
T. TOPAZINA (O. S.). Bar Harbor, June 8 (J.); Station F190,
June 2 (P.).

CTENOPHORA Meigen

- C. APICATA O. S. Bar Harbor, July 20-28 (B.).

PRIONOCERA Loew

- P. FUSCIPENNIS (Lw.). S. W. Harbor, July 13; Witch Hole
Pond, Aug. 18 (P.).

NEPHROTOMA Meigen

- N. BREVIORCORNIS (Doane). S. W. Harbor, Sept. 5 (A).
N. EUCEROIDES Alex. Beaver Dam, June 13-25 (A). Beaver
Dam, June 30 (B).
N. FERRUGINEA (Fab.). Rhodora Meadow, June 15 (A);
Camp Ground, Aug. 29-Sept. 3, 14 (B). Emerged from
pupa, Oct. 4 (B). Corfield and Penikese, July 16 (P). Com-
mon, June 11-Aug. 29.
N. INCURVA (Lw.). Corfield (P); N. E. Harbor (Minot);
June 16-Aug. 3. Bubble Pond (H); Rhodora Meadow, June
15 (A); Salisbury Cove, July 26 (A).
N. LUGENS (Lw.). Bubble Pond Inlet, June 21 (H). Bubble
Pond Outlet laying eggs in loose sandy soil (A). Witch
Hole, June 6 (P); Beaver Dam, June 11 (B).
N. PEDUNCULATA (Lw.). S. W. Harbor, June 21-July 10 (J);
Corfield at light, June 30 (P).
N. TENUIS Loew. Northeast Harbor; Green Mt., Seal Har-
bor, June 26, July 25 (J). Camp Ground, June 30-Aug. 28
(B). Half Moon Pond, June 13 (P); Gorge Trail, July
28 (A).
N. XANTHOSTIGMA (Lw.). S. W. Harbor; Eden (J); N. E.
Harbor (Minot), July 20-Sept. 4.

TIPULA Linnaeus

- T. (TRICHOTIPULA) OROPEZOIDES Johns. Station F190, June 2 (P); Northeast Harbor, August 29 (Minot); Beaver Dam, alt. 200 ft., June 13-21 (A); Breakneck Brook, alt. 100-250 ft., June 16 (A); Canada Brook, June 17 (A); Canyon Brook, alt. 300 ft., June 23, (A B & H).
- T. (TRICHOTIPULA) ALGONQUIN Alex. N. E. Harbor (Minot); Flying Mt. and Western Mt. (A), Aug. 27-Sept. 8. Corfield, Aug. 25-Sept. 25 (P).
- T. (NOBILOTIPULA) NOBILIS (Lw.). Echo Lake (J); Beaver Dam, June 13-July 12 (Alexander).
- T. (NIPPOTIPULA) ABDOMINALIS (Say). Bar Harbor, July 22-Aug. 18 (J).
- T. (VESTIPLEX) LONGIVENTRIS (Lw.). Morrell Park, June 21 (A).
- T. (VESTIPLEX) PLATYMERIA Wlk. Breakneck Brook, June 16 (A); Eden, May 23 (P).
- T. (YAMATOTIPULA) CALOPTERA (Lw.). Some Sound Inlet, alt. 1 to 50 ft., June 22-25 (A H & P); Beaver Dam, July 21 (B); Witch Hole, July 25 (A).
- T. (YAMATOTIPULA) CAYUGA Alex. Bar Harbor, June 7-22 (J); Duck Brook between falls and Witch Hole stream, June 24 (A).
- T. (YAMATOTIPULA) FURCA Wlk. (*Bella* Lw.). Bar Harbor, June 17 (J); Beaver Dam, June 13 (A); Beaver Dam, Aug. 9-22 (B); Sieur de Monts Spring, May 28 (B); Eden, June 25 (P).
- T. (YAMATOTIPULA) IROQUOIS Alex. (CINCTA Lw.). Bar Harbor; Long Pond (J); Stations F190 and F199 (P); Breakneck Brook, alt. 100-250 ft., June 16 (A).
- T. (YAMATOTIPULA) NOVEBORACENSIS Alex. Otter Creek, alt. 100 ft., June 15 (A).
- T. (YAMATOTIPULA) SAYI Alex. (*Costalis* Say. preoccupied). Corfield at light, Aug. 13 (P).
- T. (YAMATOTIPULA) STREPENS Loew. Bar Harbor, June 8-17 (J).

- T. (YAMATOTIPULA) TEPHROCEPHALA Loew. Echo Lake (J); N. E. Harbor (Minot), June 17–July 12; Beaver Dam, June 13 (A); Canyon Brook, June 23 (A B & H); Sta. F419 (P).
- T. (YAMATOTIPULA) VICINA Dietz. Rhodora Meadow, June 14 (A).
- T. (TIPULA) MARITIMA Alex. Laboratory at light, Sept. 19 (P); Gt. Heath, Oct. 5 (B); also Sept. 25 (B); Meadow east of Champlain Mt., Sept. 14 (B); S. W. Harbor Bog, Sept. 6 (B). New Record for Maine.
- T. (TIPULA) ULTIMA Alex. Rhodora Meadow, Aug. 19 (B), (very early); Witch Hole Pond (J); Beech and Western Mts., Sept. 8–12 (A); Beaver Dam, Newport Meadow, Aug. 30, Sept. 17 (B); Station F226, Newport Meadow, Corfield, Sept. 23, Oct. 5 (P). Lower Breakneck June 6 (P).
- T. (SCHUMMELIA) HERMANNIA Alex. (*fasciata* Lw. preocc.). Bubble Brook, Canada Brook, Beaver Dam, S. de Monts Spring, Head of Somes Sound and Duck Brook, June 14–24 (A); Canyon Brook, July 20 (A B & P); Great Heath, Sept. 6 (B); Bubble Pond, July 27 (A & P); Gorge Trail, July 28 (H).
- T. (OREOMYZA) ANGULATA Loew. S. W. Harbor, July 15 (J).
- T. (OREOMYZA) BOREALIS Wlk. (*hebes* Lw.). Station F214, Aug. 7 (P); Bar Harbor, Aug. 15 (B).
- T. (OREOMYZA) ENTOMOPHTHORAE Alex. (*simillissima* Dietz). Corfield at light, June 18–29 (P); N. E. Harbor, June 27 (Minot); Canyon Brook, July 20 (A B & P); Bar Harbor, emerged May 24 from larva in moss (Br.).
- T. (OREOMYZA) FRAGILIS Loew. Corfield, Sept. 24–Oct. 13 (P); S. W. Valley, Hunters Beach, Witch Hole, and Camp Ground, Sept. 12–Oct. 5 (B); Gorge Trail, July 28 (B).
- T. (OREOMYZA) GRATA Loew. N. E. Harbor (Minot); S. W. Harbor, July 12–Aug. 16 (J).
- T. (OREOMYZA) IGNOBILIS Loew. N. E. Harbor, July 17–Aug. 4 (Minot); Bar Harbor, July 5 (Br.).
- T. (OREOMYZA) LATIPENNIS Loew. Common, July 11–26. Salisbury Cove, July 27 (A).

- T. (OREOMYZA) PENOBSCOT Alex. Bubble Pond, June 2 (P).
New to the Island.
- T. (OREOMYZA) SENEGA Alex. (*pallida* Lw.). Breakneck Brook
and Canyon Brook, Bubble Brook, Rhodora Meadow,
Pemetic Mt. at Bubble Pond, Canada Brook, Duck Brook
and Witch Hole Brook, June 14-24 (A); Rhodora Meadow,
June 24 (P).
- T. TERNARIA Lw. Bar Harbor, May 12 (B). New record for
Maine.
- T. (OREOMYZA) TRIVITTATA Say. N. E. Harbor (Minot);
Beech Mt. (A), June 26-Sept. 12; Canyon Brook, June 23
(B); Rhodora Meadow, June 15 (A); Beaver Dam, Canyon
Brook, June 23-29 (B).
- T. (LUNATIPULA) APICALIS Loew. Beaver Dam, June 17-July 2
(B); Bar Harbor (J); N. E. Harbor (Minot), June 21-
July 16. Laboratory July 26 (P).
- T. (LUNATIPULA) BICORNIS Forbes. S. W. Harbor, June 21
(J).
- T. (LUNATIPULA) MAINENSIS Alex. Dry Mt. (J); Western
Mt., Aug. 28-Sept. 10 (A).
- T. (LUNATIPULA) MONTICOLA Alex. Duck Brook, June 13;
Bubble Pond Inlet, June 16 (A); Rhodora Meadow, June
15 (A); Pemetic Mt., June 16.
- T. (LUNATIPULA) PARSHLEYI Alex. Rhodora Meadow, June 14,
15 (A).
- T. (LUNATIPULA) SUBMACULATA Loew. Bar Harbor, July 24
(J); Canyon Brook, July 20, 25 (A); Bubble Pond, July 27
(H); Gorge Trail, alt. 500 ft., July 28 (A).
- T. (LUNATIPULA) TRIPLEX Wk. (*inermis* Doane). Common,
July 17-Sept. 12 (P).
- T. (LUNATIPULA) VALIDA Loew. Corfield, July 21 (P).

DOLICHOPEZA Curtis

- D. (DOLICHOPEZA) AMERICANA Needh. Duck Brook; S. W.
Harbor; Long Pond, June 13-20 (J); Bubble Pond Inlet,
June 16 (A). Laboratory, June 20 (P). F419 (P).

- D. (OROPEZA) CAROLUS Alex. (*albipes* Johns.). Canyon Brook, 1200 ft., July 20 (A); Witch Hole, July 25 (A); Station F251 (P); Bar Harbor, July 21 (J).
- D. (OROPEZA) DORSALIS (Johns.). Duck Brook, June 18 (A); S. W. Harbor, Echo Lake, July 13-17 (P).
- D. (OROPEZA) OBSCURA (Johns.). Witch Hole, July 25, alt. 165 ft. (A); Otter Cliffs, alt. 100 ft., July 24 (A); Gorge Trail, alt. 600 ft., July 28 (H). Common, June 20-Aug. 16.
- D. (OROPEZA) SAYI (Johns.). Bar Harbor; N. E. Harbor (Minot); Echo Lake, June 11-July 12 (J); Station F251 (P).
- D. (OROPEZA) SIMILIS (Johns.). Duck Brook; Long Pond, June 13-20 (J); Canyon Brook, June 23 (A B & H).
- D. (OROPEZA) SUBALBIPES (Johns.). Sea Wall bog, July 9 (B).
- D. (OROPEZA) VENOSA (Johns.). Beaver Dam, Rhodora Meadow, and Bubble Brook, June 14-21 (P). Bubble Pond Inlet, Canada Brook, Duck Brook, June 16-24 (A).

PHALACROCERA Schiner

- P. TIPULINA O. S. S. W. Harbor; Eden, July 11-18 (J).

LIOGMA Osten Sacken

- L. NODICORNIS NODICORNIS (O. S.). Beaver Dam, Canada Brook, Bubble Pond Inlet, Head Somes Sound, Echo Lake, Witch Hole, June 13-24 (A); Station F199 (P); F419 (P).

LIMONIA Meigen

- L. (LIMONIA) CINCTIPES (Say). One individual flew into Brower's laboratory June 23. Meadow east of Champlain Mt., Sept. 14 (B).
- L. (LIMONIA) FUSCA Meig. (*pubipennis* O. S.). Bubble Brook, Breakneck Brook, Canada Brook, Duck Brook, Old Beaver Dam, Sieur de Monts Spring, June 14-22 (A); Bar Harbor, June 19-July 30.

- L. (LIMONIA) GLOBITHORAX O. S. Echo Lake, Sept. 1 (A). Canyon Brook, June 23, and Echo Lake, Sept. 1 (A). Rare.
- L. (LIMONIA) HUDSONICA (O. S.). Bar Harbor, Aug. 10 (J).
- L. (LIMONIA) IMMATURA (O.S.). Bar Harbor, June 21 (J); Beech Mt., Sept. 12 (A); Beaver Dam, Sept. 11 (B).
- L. (LIMONIA) INDIGENA (O. S.). Bar Harbor; Long Pond; Echo Lake, June 20–Sept. 1 (J); Beaver Dam, June 21 (A).
- L. (LIMONIA) MACATEEI (Alex). Brook near Ent. Laboratory, Sept. 7 (B); Gorge Trail, alt. 600 ft., July 28 (A). New Maine record.
- L. (LIMONIA) PARIETINA (O. S.). Beech Mt., Sept. 10 (A).
- L. (LIMONIA) PEMETICA Alex. New species taken on Canyon Brook, June 23, '35 (B); Hunters Beach Brook, Sept. 24 (B).
- L. (LIMONIA) SIMULANS (Walk.). Canyon Brook, July 20 (A B & P); June 23 (B).
- L. (LIMONIA) SOLITARIA (O. S.). Common, June 13–Sept. 1. Bubble Pond Inlet, June 16 (A); also June 21 (A); Corfield, June 21 (P).
- L. (LIMONIA) TRIOCELLATA (O. S.). Bar Harbor; Eden; Echo Lake; Corfield at light, July 12–Sept. 1; Canyon Brook, June 26. Section 28. Ent. Laboratory, Aug. 7–Sept. 11 (B); Salisbury Cove, July 19 (A).
- L. (LIMONIA) TRISTIGMA (O. S.). Bar Harbor; N. E. Harbor (Minot); Echo Lake (A), July 26–Sept. 10; Salisbury Cove, July 19 (A).
- L. (DISCOBOLA) ANNULATA (Linn.) (*argus* Say). Common, July 24–Sept. 8; Canyon Brook, July 20 (A).
- L. (DISCOBOLA) NIGROCLAVATA Alex. Station F218, Sept. 4 (P); one specimen taken. Very rare, and new to Maine.
- L. (DICRANOMYIA) GIBSONI (Alex.). Bar Harbor, S. W. Harbor, June 13–July 12. Penikese, alt. sea level to 10 ft., July 26.
- L. (DICRANOMYIA) GLADIATOR (O. S.). Bar Harbor; Narrows, July 24–27; Stations F220, F222 and F226, Sept. 15–Oct. 5 (P); Eagle Lake, Oct. 9 (B).

- L. (*DICRANOMYIA*) *HALTERATA* O. S. Bubble Pond Inlet and Beaver Dam, June 13-21 (A); Stations F199, F237 and F245 (P); Pemetic Mt. at Bubble Pond, Valley Cove, S. de Monts Spring, head of Somes Sound, June 16-23 (A); Bar Harbor; Eden, Eagle Lake (J); Corfield at light, July 12-Sept. 1 (P).
- L. (*DICRANOMYIA*) *IMMODESTA* (O. S.). Salisbury Cove; N. E. Harbor (Minot); Echo Lake (A), July 14-Sept. 8.
- L. (*DICRANOMYIA*) *LIBERTA* (O. S.). Camp Ground, Bar Harbor, Rhodora Meadow, June 22-Sept. 24 (B); Corfield at light, June 18 (P). New to Maine.
- L. (*DICRANOMYIA*) *LONGIPENNIS* (Schumm.). S. W. Harbor, June 20 (J); N. E. Harbor, Aug. 11 (Minot); Station F286 (P); Pretty Marsh, Aug. 21 (B).
- L. (*DICRANOMYIA*) *MORIOIDES* (O. S.). Bar Harbor, June 13; Duck Brook, June 24 (P); Salisbury Cove, July 19 (A).
- L. (*DICRANOMYIA*) *PROFUNDA* Alex. Echo Lake, August 29 (A); Witch Hole Brook, June 18 (H); Duck Brook, June 18 (A); Beaver Dam, June 23, July 4 (B).
- L. (*DICRANOMYIA*) *PUDICA* (O. S.). Camp Ground, May 28 (B).
- L. (*DICRANOMYIA*) *PUDICOIDES* (Alex.). Canyon Brook, July 20-25 (A B & P). New record for Maine.
- L. (*DICRANOMYIA*) *ROSTRIFERA* (O. S.). Seal Cove Br. Aug. 24 (P).
- L. (*DICRANOMYIA*) *RUFIVENTRIS NEOMORIO* Alex. Lower Break-neck Pond, June 18 (P); Section 28, July 19 (P). New to the U. S.
- L. (*DICRANOMYIA*) *SPHAGNICOLA* (Alex.). Camp Ground, June 30 (B). New to Maine.
- L. (*DICRANOMYIA*) *SPINIFERA* (Alex.). Stations F225, F228 and F229, Oct. 4-8 (P); Witch Hole, Sept. 12 (B); Echo Lake; Beech Mt., S. W. Harbor, Aug. 31-Sept. 12 (A). Witch Hole, Oct. 8 (P).
- L. (*DICRANOMYIA*) *STULTA* (O. S.). Duck Brook, Otter Cliff, Witch Hole, Canyon Brook, Gorge Trail, June 24-July 25 (A). Fernald Cove, Aug. 26; Beech Mt., Sept. 12 (A).

- L. (*DICRANOMYIA*) *WALLEYI* Alex. Station F269 and Corfield at light, Sept. 25 (P). Meadow east of base of Champlain Mt., Sept. 14; Witch Hole, Sept. 12; Great Heath, Sept. 25–Oct. 2, Oct. 5 (B). New to the U. S.
- L. (*RHIPIDIA*) *MACULATA* Meig. N. E. Harbor (Minot); Long Pond; Western Mt. (A), June 30–Sept. 8; S. W. Harbor, Sept. 11 (A). Station F220 (P); Gorge Trail, July 28 (Br.).
- L. (*GERANOMYIA*) *CANADENSIS* (Westw.). Echo Lake, Sept. 4 (A).
- L. (*GERANOMYIA*) *DISTINCTA* (Doane). Camp Ground, June 29–July 4 (B).

ULA Haliday

- U. *ELEGANS* O. S. Sand Beach, July 11 (J).
- U. *PAUPERA* O. S. Bubble Pond Inlet, June 21 and Echo Lake, Sept. 11 (A). Bar Harbor, June 22; Beaver Dam, May 25 (B); Beaver Dam, June 22 (P). Lab., May 22 (P).

PEDICIA Latreille

- P. (*PEDICIA*) *ALBIVITTA* Walk. Witch Hole Brook (P); N. E. Harbor (Minot); Echo Lake (A), Aug. 7–Sept. 1. Camp Ground, Aug. 27 (B).
- P. (*PEDICIA*) *MARGARITA* Alex. Hunters Beach, Sept. 23 (B). New Maine record.
- P. (*PEDICIA*) *PROCTERIANA* Alex. Taken at Corfield at light, July (P). Presumably derived from Witch Hole Creek or Breakneck Brook or some similar nearby stream. A very striking species known only from the unique type and a specimen from Ontario.
- P. (*TRICYPHONA*) *AURIPENNIS* (O. S.). Duck Brook, June 24 (H). Rare.
- P. (*TRICYPHONA*) *AUTUMNALIS* (Alex.). Witch Hole Brook; west side of Island, Aug. 20–Sept. 7 (P); Camp Ground, Aug. 28; top of Robinson Mt., Sept. 2; Witch Hole, Sept. 12 (B); Long Pond, Aug. 21; N. E. Harbor, Sept. 6 (Minot); Echo Lake, Sept. 10 (A).

- P. (TRICYPHONA) CALCAR (O. S.). Bar Harbor; Upper Hadlock Pond; Echo Lake, June 8–July 17 (J); Valley Cove, Seawall Bog, and Canada Brook; Rhodora Meadow, Breakneck Brook, Witch Hole Brook, Bubble Pond Inlet, June 17–21 (A); Station F237 and F417 (P).
- P. (TRICYPHONA) INCONSTANS (O. S.). A common species taken at almost all the places mentioned running from Canyon Brook at a thousand feet to low brooks and swamps, from May 28 to September 22.
- P. (TRICYPHONA) PALUDICOLA (Alex.). Seawall Bog, June 12 (B); Stations F190 and F237 (P). Station F416 (P).
- P. (TRICYPHONA) VERNALIS (O. S.). Jordan Pond; Long Pond; Bar Harbor, June 10–July 26 (J); Breakneck Brook, Beaver Dam, Bubble Brook, Bubble Pond Inlet, June 16–24 (A).

DICRANOTA Zetterstedt

- D. (AMALOPINA) FLAVEOLA (O. S.). Beaver Dam, Bubble Pond, Valley Cove, Beech Mt., Breakneck Brook, Canada Brook, Sieur de Monts Spring, Canyon Brook, June 16–Sept. 12 (A); Long Pond, Bar Harbor, Echo Lake, July 16–Sept. 10 (J). Station F419 (P).
- D. (EUDICRANOTA) PALLIDA Alex. Canyon Brook, Camp Ground, June 20–30 (B). New record for Maine.
- D. (RHAPHIDOLABIS) AVIS (Alex.). Seal Harbor Br. July 14. A new record for Maine. (P).
- D. (RHAPHIDOLABIS) CAYUGA (O. S.). S. W. Harbor, Aug. 30–Sept. 11 (A).
- D. (RHAPHIDOLABIS) FORCEPS (Alex.). Breakneck Brook, Bubble Brook, Bubble Pond Inlet, June 14–16 (A).
- D. (RHAPHIDOLABIS) RUBESCENS (Alex.). Echo Lake, Sept. 8–12 (J); Beech Mt. and S. W. Harbor, Sept. 10–12 (A); Station F220, Sept. 15 (P).
- D. (RHAPHIDOLABIS) TENUIPES (O. S.). Dry Mt., Echo Lake, Aug. 26–Sept. 10 (A); Station F238, Oct. 1 (P); Ent. Laboratory, Sept. 7 (B).

OXYDISCUS de Meijere (*Adelphomyia* Bergroth)

- O. AMERICANUS (Alex.). Echo Lake; Beech Mt.; S. W. Harbor, Sept. 1-12 (A); Stations F220 and F239 (P).
O. CAYUGA (Alex.). S. W. Harbor, Aug. 30-Sept. 11 (A).
O. MINUTUS (Alex.). Canada Brook, Beaver Dam, June 13-17 (A); Station F195 (P).

EPIPHRAGMA Osten Sacken

- E. FASCIPENNIS (Say). Sieur de Monts Spring, June 4 (B); Eden, June 12 (P); Canada Brook, Somes Sound Inlet, Bubble Pond Inlet, Beaver Dam, Canyon Brook, 400 ft., June 16-23 (A). The larva is a burrower in fallen stems such as willow on the banks of temporary ponds, and has a mode of respiration suited to enforced amphibian habits.

DACTYLOLABIS Osten Sacken

- D. HUDSONICA Alex. With Hole Brook and Duck Brook, June 18 (A); Canyon Brook, 400 ft. (A B & H); in woods near Beaver Dam, May 16 (B); Breakneck Brook, June 16 (H).
D. MONTANA (O. S.). Canyon Brook, June 23; Breakneck Brook, June 16 (H); Beaver Dam, Bubble Brook, Duck Brook, June 13-18 (A).
D. PEMETICA Alex. New species taken on Canyon Brook, June 23, '35 (Br.).
D. SUPERNUMERARIA Alex. Witch Hole Brook, Duck Brook, Beaver Dam, Bubble Pond Outlet, June 18-21 (A).

PROLIMNOPHILA Alexander

- P. AREOLATA (O. S.). Morrell Park, S. de Monts Spring, Bubble Brook, Breakneck Brook, Duck Brook, Somes Sound Inlet, Canyon Brook (A B & H); Green Mt., July 18 (A); Station F254 (P).

AUSTROLIMNOPHILA Alexander

- A. *TOXONEURA* (O. S.). Witch Hole, S. de Monts Spring, Rhodora Meadow, June 15–22 (A); Bar Harbor, June 13; Echo Lake, July 12 (J). Station F418 (P).
- A. *UNICA* (O. S.). Bar Harbor, June 22; Canada Brook, June 17 (A).

PSEUDOLIMNOPHILA Alexander

- P. *CONTEMPTA* (O. S.). Canyon Brook, Breakneck Brook and Echo Lake, June 16–Aug. 29 (A); Stations F212 and F214 (P); Seawall Bog, July 9 (B); Morrell Park, June 19 (Salman). Lower Breakneck, June 6 (P).
- P. *INORNATA* (O. S.). Seawall Bog, June 19–July 5 (A); Aug. 4 (B); Witch Hole and Long Pond, June 13–20, July 25 (A), July 27 (B).
- P. *NOVEBORACENSIS* (Alex.). Echo Lake, Sept. 1–4 (A); Stations F214 and F252 (P); Salisbury Cove, Witch Hole, July 19–27 (A); Maple Swamp, July 24 (B).

LIMNOPHILA Macquart

- D. (*LASIOMASTIX*) *MACROCERA* Say. Bar Harbor, Aug. 15; Rhodora Meadow, Beaver Dam, June 14–22 (A); Sieur de Monts Spring, July 25 (B).
- L. (*LASIOMASTIX*) *TENUICORNIS* O. S. Somes Sound Inlet, Bubble Pond Inlet and Canada Brook, June 16–22 (A); Station F199 (P); Beaver Dam, June 13 (A); Head of Somes Sound, June 23 (A). Station F419 (P).
- L. (*DICRANOPHRAGMA*) *ANGUSTULA* (Alex.). Station F212, Aug. 3–Sept. 1 (P); Canyon Brook, July 20; Station F252 (P); Witch Hole, July 25, Maple Swamp, July 24 (B); Bubble Pond, July 27 (A).
- L. (*DICRANOPHRAGMA*) *FUSCOVARIA* O. S. Bar Harbor; S. W. Harbor; Echo Lake, July 21–Sept. 1 (J) (P); Head of Somes Sound, Canyon Brook, Salisbury Cove, June 23–July 19 (A). Lower Breakneck, July 6 (P).
- L. (*ELAEOPHILA*) *JOHNSONI* Alex. Bubble Pond Inlet, June 16 (A). Rare.

- L. (ELAEOPHILA) SOLSTITIALIS Alex. Echo Lake, Sept. (A).
- L. (PRIONOLABIS) MUNDA O. S. Echo Lake, July 12 (J); Beech Mt., Sept. 10-12 (A).
- L. (PRIONOLABIS) RUFIBASIS O. S. Bar Harbor (J); N. E. Harbor (Minot); June 21-30; Bubble Pond, June 21 (H); Station F190 (P). Beaver Dam, Bubble Brook, Rhodora Meadow, Breakneck Brook, Pemetic Mt. at Bubble Pond, Canada Brook, Duck Brook, S. de Monts Spring, Head of Somes Sound, June 14-23 (A); Field Laboratory, June 7-21 (B); Hunters Beach Brook, mating pair (P). F405 & 416 (P).
- L. (PHYLIDOREA) ADUSTA O. S. S. W. Harbor, July 15; Green Mt. and Great Head, June 14-15 (A).
- L. (PHYLIDOREA) AURIPENNIS Alex. Coorfield, Aug. 20 (P); Bar Harbor, Sept. 1 (B); Camp Ground, Sept. 17 (B). Corfield, Oct. 20 (P).
- L. (PHYLIDOREA) CONSIMILIS FUMIDICOSTA Alex. Maple Swamp, July 24 (B); Corfield, June 16 (P). New Maine record.
- L. (PHYLIDOREA) FRATRIA O. S. Bar Harbor, June 3-14 (J); Duck Brook, June 24 (A).
- L. (PHYLIDOREA) LUTEA Doane. The "true (*lutea*).". Common in June. Breakneck Brook, Champlain Monument near Hunters Beach, Canada Brook, Beaver Dam, Sieur de Monts Spring (A), June 16-22; Field Laboratory, June 21 (B); spruce growth near Lab., June 25 (B).
- L. (PHYLIDOREA) NOVAE-ANGLIAE Alex. In Procter collection at extremes of series of *L. lutea*.
- L. (PHYLIDOREA) PLATYPHALLUS Alex. Beaver Dam, Salisbury Cove, July 16-19 (A). Rare.
- L. (PHYLIDOREA) SUBCOSTATA (Alex.). Bar Harbor, July 4 (Salman).
- L. (LIMNOPHILA) BREVIFURCA O. S. Bubble Pond Inlet, Beaver Dam, Bubble Brook, Canada Brook, Valley Cove, Sieur de Monts Spring, Duck Brook, June 17-22 (A); Echo Lake, Sept. 4 (A); Stations F199 and F237 (P); Duck Brook, Sept. 11 (A).

SHANNONOMYIA Osten Sacken

S. LENTA (O. S.). Salisbury Cove, July 19 (A); Camp Ground, Witch Hole, July 19–27 (B); Section 28, July 19 (P); Beech Mt., Sept. 12 (A); Station F214 (P); Cedar Swamp on Tremont line, Aug. 7–Oct. 1 (P); Eagle Lake; S. W. Harbor, July 18–Sept. 11 (J). Seal Harbor Br., Aug. 11 (P).

PILARIA Sintenis

- P. QUADRATA* (O. S.). Bar Harbor, June 11–July 21 (J); Bubble Brook and Beaver Dam, June 13–14 (A); Canada Brook, S. de M. Spring, June 17–22 (A); Station F190; Stations F251, F254; Corfield, May 16 (P). F416, F419 (P).
- P. RECONDITA* (O. S.). Great Heath, Aug. 4 (Br.); Station F254 (P).
- P. STANWOODAE* (Alex.). Witch Hole Brook, Beaver Dam, Bubble Pond Inlet and S. de M. Spring, June 13–22 (A); Stations F237 and F252 (P).
- P. TENUIPES* (Say). Stream near Ent. Laboratory, Aug. 9 (B); Bar Harbor, July 19 (J).

HEXATOMA Latreille

- H. (ERIOCERA) BRACHYCERA* (O. S.). Bar Harbor, July 21–Aug. 10 (J); Bubble Pond, July 27, about a dozen in groups of 2's and 3's, flying very low over pools of small woodland trout stream (A & P); Gorge Trail, July 28 (H).
- H. (ERIOCERA) CINEREA* (Alex.). Somes Sound Inlet; Station F199, June 22–23 (P). Rare.

ELEPHANTOMYIA Osten Sacken

- E. WESTWOODI* O. S. Echo Lake, Eagle Lake, Bar Harbor, July 17–24 (J); Otter Cliffs and Bubble Pond, July 24–27 (A); Camp Ground, Aug. 2 (B).
- E. WESTWOODI ADIRONDACENSIS* Alex. A small race or variety of the last. Tremont, May 31 (P).

CLADURA Osten Sacken

- C. (NEOCLADURA) DELICATULA Alex. Beech Mt., Sept. 10-12 (A); Stations F220, F223 and F225, Sept. 15-Oct. 4 (P); Rhodora Meadow, Sept. 24 (B); Western Mt., 800 ft., in ferns, Sept. 30 (P).
- C. (CLADURA) FLAVOFERRUGINEA O. S. Station F223, Sept. 24 (P); Rhodora Meadow, S. W. Harbor, Sept. 24-Oct. 9 (B).

CHIONEA Dalman

- C. VALGA Harris Bar Harbor, Feb. 16 (B).

GNOPHOMYIA Osten Sacken

- G. TRISTISSIMA O. S. N. E. Harbor (Minot); Bar Harbor, July 2-22; Canyon Brook, June 23 and July 25 (A); Corfield, June 30 (P).

LIPSOTHRIX Loew

- L. SYLVIA (Alex.). Bubble Pond Inlet, June 16 (A). Rare.

GONOMYIA Meigen

- G. (LIPOPHELPS) SULPHURELLA O. S. Rhoda Meadow, June 14 (A); Camp Ground, Aug. 2-Sept. 5 (B).
- G. (GONOMYIA) BIDENTATA Alex. Echo Lake; Beech Mt. Aug. 29-Sept. 12 (A); Station F214, Aug. 7; Station F239 and cedar swamp on Tremont line, Oct. 1 (P); Salisbury Cove, July 19 (A).
- G. (GONOMYIA) SUBCINEREA O. S. Bar Harbor, July 18 (J).

HELOBIA St. Fargeau

- H. HYBRIDA (Meig.). S. W. Harbor, July 11 (J); N. E. Harbor, Aug. 11 (Minot).

ERIOPTERA Meigen

- E. (EMPEDA) STIGMATICA O. S. Station F254 (P); Rhodora Meadow, Somes Sound Inlet, Beaver Dam, Canada Brook, S. de Monts Spring, June 13-22 (A); Echo Lake, Aug. 29 (A); Camp Ground, July 29-Sept. 6 (B). F417 (P).
- E. (GONEMPEDA) NYCTOPS Alex. Upper Hadlock Pond, June 10 (J); Bubble Pond Inlet, June 21 (P).
- E. (ERIOPTERA) CHLOROPHYLLA O. S. Long Pond; Bar Harbor, July 16-26 (J).
- E. (ERIOPTERA) CHLOROPHYLLOIDES Alex. Camp Ground, Great Heath, Witch Hole, July 5-Aug. 4 (B); Eden, July 5 (P).
- E. (ERIOPTERA) CHRYSOCOMA O. S. Camp Ground and Maple Swamp, July 15-24 (B); Rhodora Meadow, Somes Sound Inlet, Salisbury Cove, June 14-July 19 (A); Stations F25 and F254 (P); Section 28, July 19 (P).
- E. (ERIOPTERA) MEGOPHTHALMA Alex. Rhodora Meadow and S. de M. Spring, June 14-22 (A).
- E. (ERIOPTERA) SEPTEMTRIONIS O. S. S. de M. Spring, Rhodora Meadow, and Beaver Dam, June 13-22 (A); Camp Ground, Rhodora Meadow, May 2-Oct. 1 (B).
- E. (ERIOPTERA) SUBFURCIFER Alex. Camp Ground, July 21 (B). Hitherto only from Conn. and Michigan.
- E. (ERIOPTERA) ULIGINOSA Alex. Witch Hole, July 27 (B). Hitherto only from Conn., Mich. and Wisconsin.
- E. (ERIOPTERA) VESPERTINA O. S. Rhodora Meadow, June 14 (A).
- E. (ERIOPTERA) VIRIDULA Alex. Maple Swamp, Camp Ground, July 17-24 (B). New to Maine.
- E. (MESOCYPHONA) CALOPTERA Say. Rhodora Meadow, June 14 (A).
- E. (MESOCYPHONA) NEEDHAMI Alex. Bar Harbor, July 11 (J); Station F251 (P).
- E. (HOPLOLABIS) ARMATA O. S. Rhodora Meadow, June 13-14 (P); Sieur de Monts Spring, June 22 (A).

E. (ILISIA) ARMILLARIS O. S. Bar Harbor, July 17 (J); S. de M. Spring, June 22–July 25 (A); Station F254 (P); Camp Ground, July 30 (B).

E. (ILISIA) VENUSTA O. S. Beaver Dam, June 13 (A).

ORMOSIA Rondani

O. ADIRONDACENIS Alex. Breakneck Brook (H); Bubble Pond Inlet, Canyon Brook, alt. 350 ft., June 16–23 (A). Rare.

O. ARCUATA (Doane). Camp Ground, Sept. 12, 22 (Br.).

O. BROWERI Alex. sp.n. May 15 (B).

O. DENTIFERA Alex. Bar Harbor, May 18 (B).

O. DEVIATA Dietz. Common, June 15–Sept. 11. Taken all over the Island by (A), (B), (J) and (P).

O. LUTEOLA Dietz. Echo Lake (J); S. W. Harbor, Aug. 28–Sept. 8 (A).

O. MEGACERA Alex. Witch Hole Brook and Eagle Lake, June 18–Sept. 1 (A). Duck Brook, Head of Somes Sound, Cadillac Mt., Bubble Pond, June 18–July 27 (A). Rare.

O. MEIGENII (O. S.) Beaver Dam, Great Head, Rhodora Meadow, Breakneck Brook, Bubble Pond Inlet, Valley Cove, S. de M. Spring, Head Somes Sound, Bubble Brook, June 13–23 (A).

O. MESOCERA Alex. Canada Brook, June 17 (A).

O. MONTICOLA (O. S.). Dry Mt. (J); Echo Lake; S. W. Harbor, Aug. 26–Sept. 10 (A).

O. NIMBIENNIS Alex. Common on the ponds and on Dry Mt., Western Mt. and other high places, Aug.–Sept. Echo Lake, Sept. 2 (B).

O. NUBILA (O. S.). Echo Lake (J); Western Mt., Sept. 4–8 (A); Station F220, Sept. 15 (P); Bar Harbor, Maple Swamp, May 23–28 (B).

O. PYGMAEA (Alex.). Canada Brook, Dry Mt., Echo Lake; S. W. Harbor, June 17–Sept. 10 (A); Stations F220 and F225, Sept. 15–Oct. 4 (P). S. de M. Spring, June 22 (A). Hunters Beach, Sept. 18 (B).

- O. RUBELLA (O. S.). Echo Lake (J); S. W. Harbor, Aug. 29–Sept. 10 (A). Rhodora Meadow, Sept. 24; Witch Hole, Sept. 12 (B). Below Newport Mt. Sept. 8 (P).

TASIOCERA Skuse

- T. (DASYMOLOPHILUS) UESINUS (O. S.). Witch Hole Brook, June 18–July 25 (A).

MOLOPHILUS Curtis

- M. CRAMPTONI Alex. Bubble Pond Inlet, Beaver Dam, Valley Cove, S. de M. Spring, June 16–22 (A). Rare.
- M. FORCIPULUS (O. S.). Rhodora Meadow (A); Breakneck Brook (H); Station F199 (P); Long Pond, June 14–July 24. Section 28, July 19 (P). Lower Breakneck Pond, July 18 (P). S. de M. Spring, Head of Somes Sound, June 22 (A); Salisbury Cove, July 19 (A).
- M. FULTONENSIS Alex. Stations F212 and F214, Aug. 3–7 (P); Section 28, July 19 (P); Canyon Brook, July 20 (A B & P); Salisbury Cove, July 27 (A); Camp Grounds, Aug. 9 (B). New to Maine.
- M. HIRTI PENNIS (O. S.). S. W. Harbor; Bar Harbor, July 11–17 (J). Beaver Dam, Bubble Brook, Seawall Bog, Canada Brook, Witch Hole Brook, S. de Monts Spring, June 13–22 (A). Station F416 & 417 (P).
- M. LARICICOLA Alex. Seawall Bog, June 19 (A). Rare.
- M. PALUDICOLA Alex. Beaver Dam, June 16 (A). Rare.
- M. PUBI PENNIS (O. S.). Salisbury Cove, Beaver Dam, Canada Brook, Witch Hole Brook, Head of Somes Sound, June 3–23 (A); Witch Hole, July 25 (P).
- M. SOROR Alex. S. W. Harbor, Sept. 11 (A).

TOXORHINA Loew

- T. (TOXORHINA) MULIEBRIS (O. S.). Eagle Lake; Bar Harbor, July 18–24 (J); Seawall Bog, S. W. Harbor, July 5, 9 (B).

ANISOPODIDAE. Meigen

On foliage and tree trunks around wet places is the place for these.

ANISOPUS Meigen

- A. ALTERNATUS Say. Bar Harbor; Corfield, Aug. 1–Sept. 9.
A. FENESTRALIS (Scop.). Laboratory window. Oct. 20.
A. PUNCTATUS Say. Beating pine Lower Breakneck Aug. 20.

BLEPHARICERIDAE. Net-winged Midges

Found on foliage along the edges of swift streams.

BLEPHARICERA Macquart

- B. TENUIPES Walk. Duck Brook, June 13.

SIMULIIDAE. The Black Flies

One collects these most everywhere here in May and June without the slightest effort.

SIMULIUM Latreille

- S. PARNASSUM Mall. Common. May 20–July 15.
S. VENUSTUM Say. Common. May 20–July 15.
S. SP. One specimen F382.

PROSIMULIUM Roubaud

- P. HIRTIPES Fries. Echo Lake; Green Mt., June 17–July 25.

TENDIPIDAE (*Chironomidae*). The Midges

Found for the greater part near water. Dusk is the collecting time. Common on tree trunks in daytime.

PENTANEURA Philippi

- P. CARNEA Fab. Bar Harbor, July 22–Sept. 13.
P. MELANOPS Meig. Long Pond, Bar Harbor, June 27–July 19.
P. MONILIS Linn. Echo Lake, July 12.

TANYPUS Meigen

T. HIRTIPENNIS Loew. Bar Harbor, Sept. 13.

PROCLADIUS Skuse

P. CULCIFORMIS Linn. Bar Harbor, June 30.

EURYNEMUS Van der Wulp

E. SCITULUS Coq. Echo Lake, June 17.

CHASMATONOTUS Loew

C. ATRIPES Rempel. Lower Breakneck beating pine.

C. BIMACULATUS O. S. Echo Lake, July 12.

C. UNIMACULATUS Loew. Bar Harbor; N. E. Harbor; Echo Lake, June 22-July 24.

LAUTERBORNIELLA Bause

L. VARIPENNIS Coq. Seal Cove Brook, Sept. 8.

MICROTENDIPES KIEFFER

M. PEDELLUS var PEDELLUS DeG. Bar Harbor; S. W. Harbor. July 22-Aug. 30.

POLYPEDILUM KIEFFER

P. FALLAX Johan. Duck Brook, July 13.

TANYTARSUS Van der Wulp

T. DEVINCTUS Say. Echo Lake, July 12 in M. C. Z.

T. JUCUNDUS var. DIMORPHUS Mall.

T. NIGRICANS Johan. S. W. Harbor, July 13-Sept. 10.

T. QUADRIPUNCTATUS Mall. Bar Harbor, July 10.

STENOCHIRONOMUS Kieffer

S. HILARIS Walk. Cortfield in May and July.

S. PULCHRIENNIS Coq. Echo Lake, July 12.

S. TAENIENNIS Coq. Echo Lake, June 12.

XENOCHIRONOMUS Kieffer

X. FESTIVUS Say. Bar Harbor, May 16.

TENDIPES Meigen (*Chironomus*)

- T. DUX Johan. Bar Harbor, July 20.
T. MODESTUS Say. Bar Harbor, June 11.
T. PLUMOSUS Linn. Bar Harbor, June 13.
T. RIPARIUS Meig. Bar Harbor, June 13.

GLYPTOTENDIPES Kieffer

G. BRACHIALIS Coq. Bar Harbor, Aug. 10.

CERATOPOGONIDAE. The Biting Midges

This is a family that one can collect without much searching. Just meander around near water at dusk.

FORCIPOMYIA Meigen

S. SQUAMIPES Coq. "Mt. Desert," July 31 (McAtee).

DASYHELEA Kieffer

- D. MUTABILIS Coq. "Mt. Desert," July 30 (McAtee).
D. CINCTA Coq. Several taken at laboratory Sept. 29, '40.

CULICOIDES Latreille

C. SANGUISUGA Coq. Long Pond, July 16.

CERATOPOGON Meigen

- C. FUSCINERVIS Mall. New Mill Pond in spatterdock (*Nym-
phaca adrena*), July, '33. Scarce.
C. LEVIS Coq. Bar Harbor, June 22-July 28.

SERROMYIA Meigen

S. FEMORATA Meig. S. W. Harbor, July 13.

HETEROMYIA Say

- H. FLAVIPES Meig. Bar Harbor, June 11.
H. PLEBJA Loew. Bar Harbor, Aug. 18.
H. RUFa Loew. Witch Hole Pond, June 13.
H. TRIVIALIS Loew. Salisbury Cove, July 15.

PALPOMYIA Meigen

- P. NEBULOSA Mall. Bar Harbor, July 21.

JOHANNSENOMYIA Malloch

- J. BIMACULATA Loew. Bar Harbor, Aug. 10.

PROBEZZIA Kieffer

- P. XANTHOGASTER Kieff. (*P. elegans* Coq.). Jordan Pond,
June 10.

PSYCHODIDAE. The Moth Flies

Sweep foliage in shady swampy places for these and take great care in preserving your catch. Common on tree trunks after rains.

PSYCHODA Latreille

- P. CINEREA Banks. S. W. Harbor, June 18.
P. MARYLANDANA Del. R. Station F395.
P. SIGNATA Banks. Long Pond, Echo Lake; Bar Harbor;
June 27-July 24. Record lost.

PERICOMA Walker

- P. SLOSSONI Will. Bar Harbor; Salisbury Cove, July 19-
Aug. 11.
P. SP. One taken in lab. June 13, '39.

DIXIDAE

Another water frequenter whose larvae live in ponds and the like.

DIXA Meigen

- D. CENTRALIS Loew. Bar Harbor, July 25; Duck Brook, Sept. 11.
 D. MODESTA Johan. Jordan Pond, June 10; S. W. Harbor, Aug. 30–Sept. 10 (Alexander).
 D. FUSCA Loew. Flying Mt., Aug. 26 (Alexander).
 D. sp. Corfield, Sept. 8.

CULICIDAE. The Mosquitoes

CHAOBORINAE

EUCORETHRA Underwood

- E. UNDERWOODI Underw. Pools in a spring run at the head of Bear Brook, near Bar Harbor, July 21; Echo Lake, Sept. (Alexander). The larva is predaceous, feeding upon the larvae of other mosquitoes.

CHAOBORUS Lichtenstein

- C. NYBLAEI Zetterstedt (*C. trivittatus* auct.). Duck Brook, Sept. 11, 1922. A non-biting species.
 C. AMERICANUS (Johan.). (*C. cristallina* auct.). S. W. Harbor, July 13. These are non-biting.

CULICINAE

ANOPHELES Meigen

- A. (ANOPHELES) OCCIDENTALIS Dyar & Knab (*maculipennis*) of authors. Most references in literature under this name. Outlet of Long Pond, June 20. Its relation to malaria is unknown.

AËDES Meigen

- A. SOLLICITANS Walk. White-banded salt-marsh mosquito. Narrows, June 26–Aug. 13. The most northern range for this troublesome sea-coast mosquito. It breeds in the pools in the salt marshes, wintering in the egg state.
 A. CANTATOR Coq. "Brown salt-marsh mosquito." Narrows; Bar Harbor; "Great Heath"; S. W. Harbor, June 9–Aug. 23.

- A. EXCRUCIANS (Walk.). Bar Harbor, Aug 12 (Br.). An all summer species living in the woods and starts out in the spring by breeding in flooded places.
- A. FITCHII Felt & Young. Long Pond; S. W. Harbor; Bar Harbor; N. E. Harbor, June 20–July 16. Frequents the woods. The winter is passed in the egg.
- A. STIMULANS (Walk.). Brown wood mosquito. Bar Harbor; Echo Lake; S. W. Harbor, June 17–July 30. The winter is passed in the egg. The larvae develop in pools in the woods.
- A. CANADENSIS (Theob.). Bar Harbor, June 22–Aug. 3 (Br.). Hibernates in the egg stage and starts off in the spring while ice is still present. Favors pools with some decaying vegetation.
- A. AURIFER (Coq.). “Golden-scaled mosquito.” North end of Long Pond, June 26. The larva lives in spring pools. It passes the winter in the egg state.
- A. COMMUNIS (DeG.). Bar Harbor, May 6–July 4 (Br.). Appears very early, prefers shade, attacks at night and stays with us the entire season. A northern species.
- A. DIANTAEUS Howard Dyer & Knab. Bar Harbor; S. W. Harbor, June 7–25. The larvae live in pools in woods. The winter is passed in the egg.
- A. INTRUDENS Dyar. Bar Harbor; S. W. Harbor; Echo Lake, June 7–25. The winter is passed in the egg. The larvae develop early in the spring in pools in the woods.
- A. PUNCTOR (Kby.). Northern woods mosquito. Common, June 7–July 12. The larvae live in pools in the woods, developing in early summer. The winter is passed in the egg.
- A. ATROPALPUS (Coq.). “Rock-pool mosquito.” Bar Harbor, July 10. The larvae lives in holes in the rocks. The winter is passed in the egg state attached to rocks.
- A. VEXANS (Mg.). S. W. Harbor; Bar Harbor, May 25–Sept. 20 (Br.). The favorite breeding places are temporary pools in meadows and marshes as well as places left for them by human negligence. They are the most troublesome of the family.

CULEX Linnaeus

C. RESTUANS Theob. (*terrigans* Walk.). Bar Harbor Sept. 10. The larvae live in puddles and water barrels.

MANSONIA Blanchard

M. PERTURBANS Walk. Bar Harbor, July 19–29. One of the most troublesome of the mosquitoes. The larvae live among the roots of *Carex* and do not come to the surface of the water to breathe. It passes the winter as half-grown larvae.

WYEOMYIA Theobald

W. SMITHII Coq. Pitcher-plant mosquito. Pond Heath; Salisbury Cove; Witch Hole, July 12–30. This species lives only in the water in the leaves of the pitcher-plant (*Sarracenia purpurea*). It is the smallest of the mosquitoes and passes the winter in the larval stage frozen in the ice.

CECIDOMYIDAE. The Gall Midges

This family is one of general distribution and the best way is to search for the galls and rear them. It is then far easier to make the identifications.

LESTREMIA Macquart

L. ACERIFOLIA Felt. S. W. Harbor, June 18, 1921.

L. DYARI Felt. Bar Harbor, July 22, 1912.

L. SOLIDAGINIS Felt. Bar Harbor, July 22, 1919.

CATOCHA Haliday

C. sp. N. E. Harbor, July 8.

CORDYLOMYIA Felt

C. TUMIDA Felt. N. E. Harbor, July 8 (Minot).

ASTEROMYIA Felt

- A. CARBONIFERA Felt. Common. An oval black, ocellate blister-gall on the leaves of *Solidago*.

LASIOPTERA Meigen

- L. SPIRAEAFOLIA Felt. Bar Harbor. A blister-leaf gall on *Spiraea latifolia* (meadow sweet).
L. SOLIDAGINIS O. S. Reared from galls of *Solidago* in September.

NEOLASIOPTERA Felt

- N. RAMUSCULA Beutin. Aster stem gall. S. W. Harbor. Fusiform stem galls on asters.

RHABDOPHAGA Westwood

- R. BATATAS Walsh. Willow potato-gall. S. W. Harbor; Salisbury Cove, Aug. 5 (Sanford).
R. BRASSICOIDES Walsh. Willow cabbage-gall. Bar Harbor; Salisbury Cove, Aug. 5 (Sanford).
R. SALICIFOLIA Felt. *Spiraea* pod-gall. Salisbury Cove; Bar Harbor.
R. STROBILOIDES Walsh. Cone willow-gall. Common, a cone-like gall on willow.
R. TRITICOIDES Walsh. Wheat-ear willow-gall. Bar Harbor, July 10.

DASYNEURA Rondani

- D. GAYLUSSACH Felt. Blueberry leaf-gall. Common.
D. PARTHENOCISSI Stebb. On *Ampelopsis* but not common.

DIARTHROMYIA Felt

- D. HYPOGAEA (Loew). The Chrysanthemum Midge reared from leaves. Oct. 4, '43.

PHYTOPHAGA Rondani

- P. RIGIDAE O. S. Beaked willow-gall. Bar Harbor; Salisbury Cove.

OLIGOTHROPUS Latreille

O. sp. Long Pond, June 20.

RHOPALOMYIA Rübsaamen

R. LANCEOLATA Felt. Bred ex *Solidago* gall (Br.), Sept. 18,

ASPHONDYLIA Loew

A. ANTENNARIAE Wheeler. Everlasting-bud gall. Bar Harbor, Aug. 15. Corn-shaped bud gall on everlasting (*Antennaria plantaginifolia*).

CINCTICORNIA Felt

C. MAGALIS O. S. Oak-vein gall. Bar Harbor. A vein gall on the leaves of the red oak.

C. PILULAE Walsh. Oak-pill gall. Bar Harbor; Penikese. Round, hard, rough galls on the leaves of the red oak.

CONTARINIA Rondani

C. CANADENSIS Felt. Ash-midrib gall. Bar Harbor, June.

C. VIRGINIANIAE Felt. Choke-cherry midge. Salisbury Cove. This midge causes swollen deformed fruit on the choke-cherry.

C. SPIRAEINA Felt. Spiraea cabbage-gall. S. W. Harbor. A terminal cabbage-like bud-gall.

MYCOPLOSIS Rübsaamen

M. POPULIFOLIA Felt. Salisbury Cove; Bar Harbor, Aug. Bullet-like swelling at the base of poplar leaves.

OBOLODIPLOSIS Felt

O. ROBINIAE Hald. Locust-leaf midge. Salisbury Cove, July 14. Forming rolled leaf-margins on locust (*Robinia pseudo-acacia*).

RETINODIPLOSIS Kieffer

R. INOPIS O. S. Bred from *Pinus rigida* twigs (Br.).

PARALLELODIPLOPSIS Rübsaamen

P. RUBRASCUTA Felt. Reared from white spruce, July (Br.).

CECIDOMYIA Meigen (*Itonida* Meigen)

C. NIVEIPILA O. S. Oak fold gall. Salisbury Cove, Aug. An irregular white pubescent gall on the under side of the leaf, with a fold on the upper side.

C. OCELLARIS O. S. "Maple leaf-spot." Common. A yellow red margined blister leaf-gall.

C. PELLEX O. S. Ash bullet gall. Bar Harbor. Round red gall on the midrib.

C. SALICIFOLIAE O. S. Eden, Aug. Leaves of *Spiraea* near summit of stem are aborted and transformed into pouches with a little of blade remaining.

C. sp.? Toothed purse gall. Common. A flattened pouch gall on the leaves on the shadbush (*Amelanchier*).

S. sp. Common on oak leaves 1943. Looks like Felt. Fig. 74.

C. sp. Prematurely enlarged fruit on wild cherry containing white maggots. Sal. Cove X Emery Dist. Road.

HORMOMYIA Loew

H. CANADENSIS Felt. Shad-bush gall. Corfield.

H. FULVA Felt. Lower Breakneck Swamp (Alex.), Aug. 21.

H. VERRUCA Walsh. August in various places. The Willow lipped gall.

H. sp. Gt. Heath. Oct. 2 (Br.).

TRISHORMOMYIA Kieffer

H. CANADENSIS Felt. June-berry lipped gall. S. W. Harbor; Bar Harbor, June. A truncated red-lipped gall on the shad-bush (*Amelanchier canadensis*).

PORRICONDYLA Rondani

P. SYLVESTRIS Felt. Bar Harbor, Aug. 12, 1921.

P. sp. N. E. Harbor, Aug. 6 (Minot).

P. sp. Bar Harbor, June 6.

SCIARIDAE. The Dark-winged Fungus Gnats

Any moist place where fungus grows is their habitat.

ZYGONEURA Meigen

Z. FLAVICOXA Johan. Bar Harbor, July 22.

SCIARA Meigen

- S. FUMIDA Johan. Bar Harbor, July 22.
S. HABILIS Johan. N. E. Harbor, July 4, also a specimen from Duck Br., June 24, '35 that varies somewhat.
S. HASTATA Johan. Bar Harbor, July.
S. OCHROLABIS Loew. Bar Harbor, July.
S. QUADRISPINOSA Petty. Bubble Br., June (Alex.).
S. SCIOPHILA Loew. Bar Harbor, Aug.
S. SYLVESTRII Kieffer. Echo Lake, July 12.
S. VARIANS Johan. N. E. Harbor, Aug. 11 (Minot).
S. sp. Reared from larch, June 15, '43.
S. sp. Reared ex poplar leaves Hulls Cove, June 27.
S. sp. Duck Br. (Alex.), June 24.

MYCETOPHILIDAE. The Fungus Gnats

Are found in moist places such as mossy rocks along woodland brooks.

BOLITOPHILA Meigen

- B. DISJUNCTA Loew. Bar Harbor; Seal Cove, June 11–Sept. 10.
B. HYBRIDA Meig. Found in dark damp places.
B. sp. near HYBRIDA Meig. Tremont, May 31.
B. MONTANA Coq. Bar Harbor, June 7.
B. sp. Station F190.

DIADOCIDIA Ruthe

- D. FERRUGINOSA Meig. Long Pond, June 27.

MACROCERA Meigen

- M. CLARA Loew. Bar Harbor, July 20-Aug. 10.
M. FORMOSA Loew. Gorge Green Mt., July 20.
M. HIRSUTA Loew. Bar Harbor, July 20.
M. INCONCINNA Loew. Echo Lake; Bar Harbor, June 15-
July 20.
M. NEBULOSA Coq. Bar Harbor; Green Mt.; S. W. Harbor,
June 20-July 26.
M. sp. near HIRSUTA Loew. Canyon Br. July 20.
M. sp. Seal Cove in reeds, Sept. 1. F354.
M. sp. Bar Harbor, July 1. (Br.).
M. sp. Seal Harbor Br. Aug. 11.

ASINDULUM Winnertz

- A. COXALE Loew. Bar Harbor; Salisbury Cove, Aug. 10-11.
A. MONTANUM Roeder. Green Mt.; S. W. Harbor; N. E. Har-
bor (Minot), Aug. 17-25.

CEROPLATUS Bosc

- C. CLAUSUS Coq. Sieur de Mouts Spring, Sept. 13.
C. MILITARIS Johan. Sieur de Mouts Spring.
C. sp. Record of capture lost.

PLATYURA Meigen

- P. GENUALIS Johan. N. E. Harbor, July 12 (Minot).
P. MENDOSA Loew. Bar Harbor; Long Pond, July 21-Aug. 10.
P. FASCIPENNIS var. SAGAX Johan. Salisbury Cove; Bubble
Br., June 14-July 27.

APEMON Johannsen

- A. MANTERI Johns. One taken Duck Brook falls, June 23, '35
(Alexander). Said to be the third record.

SYMMERUS Walker

- S. TRISTIS (Loew). Bar Harbor, Aug. 10.

MYCOMYA Rondani

- M. ALTERNATA Fisher. Green Mt. half way to summit. June 23.
 M. APPENDICULATA Loew. Duck Brook, Sept. 11.
 M. HIRTICOLLIS Say.? Echo Lake, June 17.
 M. IMITANS Johan. Echo Lake; S. W. Harbor; Bar Harbor, July 17-Sept. 10.
 M. INCOMPTA Johan. Bar Harbor, June 15.
 M. LITTORALIS Say. Bar Harbor, June 13-Aug. 15.
 M. OBLIQUA Say. Bar Harbor, July 22-30.
 M. ONUSTA Loew. N. E. Harbor, June 30 (Minot).
 M. RECURVA Johan. Laboratory, Oct. 3.
 M. SEQUAX Johan. Duck Brook, June 13.
 M. TANTILLA (Loew). "Mt. Desert," July 30 (McAtee).
 M. TERMINATA var. DICHÆTA. Fisher. Duck Br., June 24, (Alex.).
 M. sp. Wood Road at Sunken Heath F340.

NEOEMPHERIA Osten Sacken

- N. DIGITALIS Fisher. Green Mt., half way to summit, June 23.

EUDICRANA Loew

- E. OBUMBRATA Loew. Bar Harbor, June 14.

NEURATELLIA Rondani

- N. SCITULA Johan. Bar Harbor, June 15; S. W. Harbor, July 20.

ALLOCOTOCERA Mik

- A. PARVULA Coq. Green Mt., Aug. 17.

LEPTOMORPHUS Curtis

- D. BIFASCIATUS Say. Bar Harbor at light (Br.), Aug. 23.
 D. NEBULOSUS Walk. Duck Brook, June 24.
 D. SUBCAERULEUS Coq. Laboratory, June 23.

POLYLEPTA Winnertz

- P. OBEDIENS Johan. Bar Harbor, July 21.

SYNTEMNA Winnertz

S. POLYZONA Loew. Bar Harbor, July 21.

SCIOPHILA Meigen

S. GALBANA Johan. Echo Lake; Bar Harbor, July 17-22.

S. PALLIPES Say. N. E. Harbor, Aug. 11 (Minot).

MONOCLONA Mik

M. ELEGANTULA Johan. Bar Harbor, Aug. 10.

ACNEMIA Winnertz

A. FLAVIOLA Coq. Long Pond, July 16-21.

GNORISTE Meigen

G. MEGARRHINA O. S. Pair half way to summit, Green Mt.,
June 23.

BOLETINA Staeger

B. TRICINCTA Loew. Echo Lake, Bar Harbor; Green Mt.,
July 12-25.

B. NOTESCENS Johan. Bar Harbor, July 21.

RONDANIELLA Johannsen

R. SORORCULA Loew. Record of capture lost.

LEIA Meigen

L. BIVITTATA Say. Laboratory, Aug. 1.

L. MELAENA Loew. Duck Brook, Aug. 18.

L. OBLECTABILIS Loew. Bar Harbor; N. E. Harbor (Minot),
July 24-Aug. 11.

L. OPIMA Loew. N. E. Harbor (Minot); Echo Lake; Bar Har-
bor, July 4-Sept. 11.

L. SUBLUNATA Loew. Bar Harbor, July 21.

L. VENTRALIS Say. Narrows, Aug. 13.

L. WINTHEMI Lehm. N. E. Harbor, Aug. 11-27 (Minot).

TETRAGONEURA Winnertz

T. sp. Duck Brook (Alex.) June 14.

EXECHIA Winnertz

E. AUXILIARIA Johan. Long Pond, June 27.

E. BELLA Johan. Long Pond, June 27.

BRACHYPEZA Winnertz

B. BISIGNATA var. DIVERGENS Johan. Bar Harbor, June 11.

ALLODIA Winnertz

A. ELATA Johan. Green Mt., July 25.

DYNATOSOMA Winnertz

D. NIGRINA Johan. Along brook at Tremont X Mt. Desert line; F253.

CORDYLA Meigen

C. VOLUCRIS Johan. Duck Brook, Sept. 11.

PHRONIA Winnertz

P. INSULA Johan. Duck Brook (Alex.) June 24.

TRICHONTA Winnertz

T. BELLULA Johan. Duck Brook (Alex.) June 24.

T. HANSONI Shaw. Mt. Desert, June 16 (Alex.).

T. PERSPICUA V. d. Wulp. Bar Harbor, June 11.

T. SAGANA Shaw. Witches Hole, June 25 (Alex.).

MYCETOPHILA Meigen

M. EDENTULA Johan. Duck Brook (Alex.) June 14.

M. EXUSTA Johan. Bubble Brook, Oct. 1; F238.

M. FASTOSA Johan. Bar Harbor, July 21.

M. LENTA Johan. Road by Half Moon Pond; F243.

M. MUTICA Loew var. A. Johan. Duck Brook (Alex.) June 24.

- M. MUTICA Loew. Duck Brook, Sept. 11, 1922.
 M. OBSCURA Walk.? S. W. Harbor, Sept. 6.
 M. PERLONGA Johan. Bar Harbor; Duck Brook; Green Mt.,
 June 13-Sept. 11.
 M. PUNCTATA Meig. Bar Harbor, July 20.
 M. SCALARIS Loew. Bar Harbor; Salisbury Cove, June 15-
 Sept. 11.
 M. SOCIA Johan. "Mt. Desert," July 30 (McAtee).
 M. TRICHONOTA Loew. Bar Harbor; Echo Lake, June 14-
 Sept. 11.
 M. ICHNEUMON Say. S. W. Harbor, Sept. 6.
 M. IMPELLANS Johan. Bar Harbor, Aug. 10.

SCEPTONIA Winnertz

- S. NIGRA Meig. "Mt. Desert," July 30 (McAtee).

BIBIONIDAE. The March Flies

Also found around decaying vegetable matter in which they breed.

PLECIA Weideman

- P. HETEROPTERA Say. S. W. Harbor; Echo Lake; Bar Harbor,
 Sept. 7-13. There was a hatch at Corfield, Sept. 17.

BIBIO Geoffroy

- B. ABBREVIATUS Loew. Nurseries sweeping grass, May 25.
 Larvae feed on grass so sweeping grass gives the best col-
 lecting.
 B. BASALIS Loew. Bar Harbor; Echo Lake; S. W. Harbor,
 June 11-24.
 B. HUMERALIS Walk. Possibly the second known specimen
 of this was taken in a crocus blossom, Corfield, Sept. 25, '40.
 B. LONGIPES Loew. S. W. Harbor, Sept. 6.
 B. SLOSSONAE Coq. Record of capture lost.
 B. VARIABILIS Loew. Bar Harbor; Echo Lake; June 8-17.
 B. sp. Penikese beating oak. Does not agree with any in
 A.M.N.H. but types are away.

SCATOPSIDAE. The Minute Black-Scavengers

These are scavengers and breed in decaying matter of various kinds.

SCATOPSE Geoffroy

S. NOTATA Linn. Laboratory, Oct. 9.

REICHERTELLA Enderlein

R. FEMORALIS Meig. S. W. Harbor, July 14.

SCHWAMMERDAMELLA Enderlein

S. BREVICORNIS Meig. S. W. Harbor; Narrows; Bar Harbor, July 11-Aug. 18.

RHEGMOCLEMA Enderlein

R. ATRATA Say. "Mt. Desert," July 31 (McAtee).

ALDROVANDIELLA Enderlein

A. HALTERATA Meig. "Mt. Desert," July 30 (McAtee).

RACHICERIDAE

Found in woods. But one genus is in the family and about a half dozen species known from the Neartic region.

RACHICERUS Walker

R. NITIDUS Johns. Foot of Picket Mt.; Bar Harbor, July 29.

STRATIOMYIDAE. The Solder Flies

On flowers and especially garden ponds are good places for them.

ACTINA Meigen

A. VIRIDIS Say. Bar Harbor; Echo Lake; S. W. Harbor, June 7-21.

ALLOGNOSTA Osten Sacken

- A. BREVICORNIS Johns. Occasional papers B.S.N.H. Vol. 5, p. 69-72, Nov. 23, from Mt. Desert material in part. Penikese; Eden, July 10-Aug. 1.
- A. FUSCITARSIS Say. S. W. Harbor; Bar Harbor, June 22.
- A. OBSCURIVENTRIS Loew. Bar Harbor; N. E. Harbor (Minot), June 7-26.

ODONTOMYIA Meigen

- O. CINCTA Oliv. Narrows, June 26; July 17, pupa, imago, July 21.
- O. PUBESCENS Day. S. W. Harbor; Narrows, Eden, June 9-July 13.
- O. VIRGO Oliv. S. W. Harbor, July 11.

STRATIOMYS Geoffroy

- S. BADIA Walk. Common on flowers, July 12 to Aug. 5.

PEDICELLA Bigot

- P. CUPRINUS Linn. Eden, July 12-Aug. 10.
- P. DECORA Say. Eden, Bar Harbor, June 9-16.

MICROCHRYSA Loew

- M. POLITA Linn. Common, July 17-Aug. 15.

COENOMYIIDAE

Search for these around wet places particularly along the edge of woods. Larvae live in decaying wood.

XYLOPHAGUS Meigen

- X. REFLECTENS Wlk. Strawberry Hill; Bar Harbor, June 9, '21.
- X. ABDOMINALIS Loew. Bred from Larch. June 12, '43.

GLUTOPS Burgess

G. SINGULARIS Burgess. This is a rare fly of which not more than fifteen specimens have been recorded. A list of known records is in Leonard "Revision of the Phagionidae of the U. S. and Canada." Mem. Amer. Ent. Soc. No. 7. The larvae live in damp wood and are said to be carnivorous. Beside road Norway Drive May 25 '41. First record from Maine.

TABANIDAE

STONEMYIA Brennan

S. FERA (Will.). Mt. Desert (Br.) July 1.

S. TRANQUILLA O. S. Common, July 20–Aug. 13.

CHRYSOPS Meigen. Deer or Moose Flies

All of the species in this genus appear with us in June and frequent open places in and along the borders of woods. They disappear about the first of August.

C. CALLIDA O. S. Salisbury Cove, July 24–Aug. 7.

C. CARBONARIA Walk. Common, June 11–July 15.

C. CELER O. S. Salisbury Cove, July 13–Aug. 11.

C. EXCITANS Walk. Common, June 7–July 20.

C. FRIGIDA O. S. Common, June 9–July 18.

C. FULIGINOSA Wied. Narrows, June 26; S. W. Harbor, July 9 (Fernald).

C. LATERALIS Wied. (*hilaris* O. S.). Salisbury Cove; Bar Harbor, July 14–Aug. 12.

C. MITIS O. S. Sargent Mt.; Bar Harbor, June 7–July 10.

C. NIGER Macq. S. W. Harbor, June 21–July 10.

C. STRIATA O. S. Bar Harbor; Eden, July 20–25; Penikese, Aug. 5.

C. VITTATA Wied. Bar Harbor; Salisbury Cove, July 13–Aug. 10.

TABANUS Linnaeus. Horse Flies

Around the edges of marshes and ponds is the place for these, but I have found the best hunting on paths and wood roads where they hover on warm mornings. The males are more difficult to find and should be tried for by sweeping the edges of brooks and ponds about dawn.

- T. ACTAEON O. S. Witch Hole, Aug. 17; Corfield, Sept. 1; Tremont, Sept. 6.
- T. AFFINIS Kby. Bar Harbor, July 30; Corfield, July 11.
- T. ASTUTUS O. S. Eden, July 18-25; Corfield, Aug. 3-6; S. W. Harbor, Aug. 25 (Br.).
- T. CINCTUS Fab. Corfield, July 26; Bar Harbor (Br.), Aug. 3.
- T. EPISTATES O. S. Common, June 8-July 31.
- T. FAIRCHILDI Stone. Corfield, June 30.
- T. ILLOTUS O. S. Stations F201 and F204, June 28-July 2.
- T. LASIOPHTHALMUS Macq. Common, June 7-July 22.
- T. LONGIGLOSSUS Phil. Bar Harbor, July 25 (Br.).
- T. MICROCEPHALUS O. S. Common, July 24-Aug. 26.
- T. MINUSCULUS Hine. S. W. Harbor bog, July 25 (Br.).
- T. NIGROVITTATUS Macq. The common "green head" is on all the salt marshes during July and August.
- T. NUDUS McD. One specimen taken at N. E. Branch. A distribution record.
- T. OHIOENSIS Hine. Salisbury Cove, July 15 (Olsen); S. W. Harbor, July 15.
- T. PEMETICUS Johns. S. W. Harbor, June 12; N. E. Harbor, July 22 (Minot); Green Mt., Aug. 17; S. W. Harbor, Aug. 20. The type locality of the species. The name is derived from Pemetie, the Indian name of the island. Scarce.
- T. SEPTENTRIONALIS Loew. S. W. Harbor; Echo Lake; Narrows, July 15-Aug. 23. Fairly common.
- T. THORACICUS Hine. S. W. Harbor, July 25 (Br.).
- T. TREPIDUS McD. Sec. 28; Stations F200 and F255, June 24-July 21.
- T. TRISPILUS Weid. Laboratory, July; Green Mt., Aug. Scarce.

- T. TRISPILUS var. SODALIS Will. Echo Lake; Eden; Bar Harbor, July 17-29.
 T. TYPHUS Whitn. S. W. Harbor, July 19-Aug. 8 (Br.).
 T. VIVAX O. S. Corfield, Aug. 13; Witch Hole, Aug. 27.
 T. ZONALIS Kby. S. W. Harbor, July 11.
 T. sp. near ASTUTUS. Record of capture lost.
 T. sp. near GRACILIPALPUS and TREPIDUS. Laboratory, Aug. 11.

RHAGIONIDAE. The Snipe Flies

A woodland form where there is plenty of foliage and ground growth.

SYMPHROMYIA Frauenfeld

- S. CURRANI Leonard. Laboratory, June 30.

RHAGIO Fabricius (*Leptis* Fabricius)

- R. GRACILIS Johns. Sieur de Monts Spring; Duck Brook, July 22-Aug. 18.
 R. MYSTACEA Macq. Common, June 13-July 4.

CHRYSOPIUS Macquart

- C. QUADRATUS Say. Common, July 8-20.

SPANIA Meigen

- S. NIGRA var. AMERICANA Johns. Witch Hole Pond; Jordan Pond, June 10-21, 1921.

SCENOPINIDAE. The Window-flies

They are said to breed in fungus.

SCENOPINUS Latreille

- S. FENESTRALIS (Linn.). Bar Harbor, July 29; Northeast Harbor, Aug. 10 (Minot). Parasitic on "buffalo beetles."

ASILIDAE. The Robber Flies

Along the edges of brooks and clearings in warm sunlight is the place to look for these. Also where other insects are attracted by freshly cut timber or cordwood.

LEPTOGASTER Meigen

- L. BADIUS Loew. Salisbury Cove, July 24, 1925; Mt. Desert, Aug. 5 (Br.).
- L. FLAVIPES Loew. Wood road on edge west of Sunken Heath. F340.
- L. TESTACEA Loew. Mouth of Northeast Creek, July 25, 1925. Scarce.

DIOCTRIA Meigen

- D. ALBIUS Walk. S. W. Harbor; Green Mt., June 25-Aug. 17.

CYRTOPOGON Loew

- C. ALLENI Back. Bar Harbor; Duck Brook; Echo Lake (Alexander), Aug. 16-29.
- C. FALTO Walk. Bar Harbor; Echo Lake; Station F198, Eagle Lake; June 8-July 17.
- C. LUTATIUS Walk. Upper Hadlock Pond; Bar Harbor, June 10-July 29.
- C. TENUIS Bromley. S. W. Harbor, July 20, 1923. The type locality.

POGONOSOMA Rondani

- P. RIDINGSI Cress. Seal Harbor (Prof. Edw. S. Morse). Rare and not a sea level form.

BOMBOMIMA Enderlein (*Dasyllis* Loew)

- B. INSIGNIS Banks. Common, June 17-Aug. 22.
- B. FLAVICOLLIS Say. Bar Harbor; S. W. Harbor; Station F104, June 11-Aug. 16.
- B. POSTICATA Say. Station F116. Common.
- B. POSTICATA var. SCUTELLARIS Bromley. Morrell Park, Sept. 18.
- B. SACRATOR Walk. Eden, Aug. 7; Fawn Pond, Aug. 16. Scarce.

LAPHRIA Meigen

- L. AEATUS Walk. S. W. Harbor, Aug. 8, 1910 (Fernald).
L. ALTITUDINUM Bromley. Bar Harbor, June 16.
L. CANIS Will. Common, June 25–Aug. 17.
L. GILVA Linn. Bar Harbor; Salisbury Cove, July 18–Aug. 14.
L. INDEX McAtee. Record of capture lost.
L. JANUS McAtee. Common, June 7–July 24.
L. SADALIS Walk. Bar Harbor, July 29.
L. SCORPIO McAtee. Bar Harbor; S. W. Harbor, Corfield,
July 6–Aug. 22.
L. SERICEA Say. S. W. Harbor (Fernald).

NEOITAMUS Osten Sacken

- A. ORPHNE Walk. Echo Lake, June 27.

MACHIMUS Loew

- A. NOTATUS Wied. Common, June 20–Aug. 26.
A. NOVAE-SCOTIAE Macq. Eden; Bar Harbor, July 24–Aug. 18.
A. PAROPUS Walk. S. W. Harbor; Sea Wall; Corfield; Station F130, June 23–Oct. 7.
A. SADYATES Walk. Eden; N. E. Harbor; Echo Lake; Breakneck; The Toad Hole; Stations F39 and F201, June 28–Sept. 26.
A. SNOWII Hine. Bar Harbor; Eden, July 10–15.

THEREVIDAE

These are to be found in dry places the latter part of the summer.

THEREVA Latreille

- T. FLAVICINCTA Loew. S. W. Harbor, July 31; Seal Cove Brook, Sept. 18.
T. FRONTALIS Say. Echo Lake, July 17; Corfield, June 14.
T. COMOTA Loew. Corfield at light, July 6.
T. sp. One hatched from pupa in moss under spruce. A large spined species.

BOMBYLIDAE. The Bee Flies

Look for them on the bloom of low growing plants such as bluets (*Houstonia caerulea*) and low blueberry bushes in dry sunny places.

ANTHRAX Scopoli

A. OEDIPUS Fab. Bar Harbor; Tremont, July 29–Aug. 23.
Parasitic in the nests of solitary wasp (*Odynerus*).

EXOPROSOPA Macquart

E. CAPUCINA (Fab.). S. W. Harbor; Salisbury Cove, July 15.
E. CALYPTERA Say. Section 28, July 20. Rare.

POECILANTHRAX Osten Sacken

P. TEGMINIPENNIS Say. One taken in a sand pit at Sea Wall, Aug. 24, '36. S. W. Harbor, July 17–Aug. 21 (Fernald).

THYRIDANTHRAX Osten Sacken

V. LATERALIS (Say). Common, July 29–Aug. 23; Great variation in size.
V. LATERALIS var. GRACILIS Macq. Bar Harbor; S. W. Harbor, July 15–22.

VILLA Lioy (*Anthrax* of authors)

V. ALTERNATA (Say). Station F260; Wood road Eden, July 31–Aug. 8.
V. HYPOMELAS Macq. S. W. Harbor, Aug. 5–22. This has been bred from one of the cut-worms.
V. FULVIANA var. NIGRICAUDA (Loew). Common, July 19–Sept. 6.
V. MORIO (Linn.). Bar Harbor; Eden; S. W. Harbor, June 11–July 17.

BOMBYLIUS Linnaeus

B. MAJOR Linn. Morrell Park on "bluets," May 27; Station F236.
B. PYGMAEUS Fab. Bar Harbor, June 7–11. Morrell Park, May 27; Newport Meadow, June 11.

CYRTIDAE. The Little-headed Flies

Some of the species in this genus are parasitic on spiders. Sweeping bushes in swampy places is the only general way to take them.

OGCODES Latreille

- O. PALLIDIPENNIS Loew. Long Pond; Eden, July 16–Aug. 7.
O. COSTATUS Loew. S. W. Harbor, July 15; Eden, June 25–
July 13 (C. H. Blake); Bar Harbor (Br.), July 2.

OBSEBIUS Costa

- O. PTERODONTINUS O. S. Top of Robinson Mt., May 1, 1912
(Fernald).

ACROCERA Meigen

- A. BULLA Westwood. Mt. Desert mating pair, July 20, '22
(Br.).
A. OBSOLETA Wulp. Gt. Heath (Br.), Aug. 4, '35, near
spider's web.
A. n.sp. Mt. Desert, Aug. 6, '37 (Br.).

EMPIDAE. The Dance Flies

Very common on shores, moist woods, mossy patches, and the various species vary in their habitat.

SYNECHES Walker

- S. SIMPLEX Walk. Salisbury Cove, July 15.

SYNDYAS Loew

- S. DORSALIS Loew. Breakneck Pond, Sept. 8.
S. POLITA Loew. S. W. Harbor; Echo Lake, July 11–12.

HYBOS Meigen

- H. SLOSSONAE Coq. S. W. Harbor, July 13–30. Seal Harbor
Br. Aug.

EUHYBOS Coquillett

E. TRIPLEX Walk. S. W. Harbor; Bar Harbor, June 21–July 26.

E. n.sp.? Laboratory, June 24.

BICELLARIA Macquart

B. PILIPES Loew. Salisbury Cove; S. W. Harbor, July 27–Aug. 26.

LEPTOPEZA Macquart

L. COMPTA Coq. S. W. Harbor; N. E. Harbor; Echo Lake, June 16–July 12.

L. RUFICOLLIS Meig. Bar Harbor; Echo Lake, June 7–27.

OCYDROMIA Meigen

O. GLABRICULA Fall. Echo Lake; Bar Harbor; Narrows, July 12–27.

OEDALEA Meigen

O. OHIOENSIS Mel. Echo Lake, June 7.

ANTHALIA Zetterstedt

A. BULBOSA Mel. Record of capture lost.

A. FLAVA Coq. S. W. Harbor; Long Pond, June 24–July 16.

A. SCHOENHERRI Zett. Corfield on *Craetagus*, June 28.
A.M.N.H.

TRICHINA Meigen

T. CLAVIPES Meig. Jordan Pond; S. W. Harbor; Echo Lake, June 10–July 17.

MICROPHORUS Macquart

M. ATRATUS Coq. Jordan Pond; Bar Harbor; Echo Lake, June 10–July 19.

ITEAPHILA Macquart

I. MACQUARTII Zett. Large numbers at Station F236. A few at Station F241.

OREOGETON Schiner

- O. OBSCURA Loew. Jordan Pond; Long Pond, June 10-27.
O. RUFA Loew. Jordan Pond; Long Pond, June 10-July 10.

HILARA Meigen

- H. FEMORATA Loew. Bar Harbor, June 8-15.
H. GRACILIS Loew. Common, July 30-Aug. 26.
H. LEUCOPTERA Loew. Narrows; Pretty Marsh, June 9-20.
H. NIGRIVENTRIS Loew. Corfield at light, Aug. 16.
H. TRISTIS Loew. Common, June 13-July 16.
H. sp. nov.? Laboratory, July 13-Aug. 12.
H. sp. Field back of Hulls Cove, Aug. 22.

EMPIS Linnaeus

- E. OTIOSA Coq. Bar Harbor (Br.) May 15. Nurseries sweeping grass, May 25.
E. NUDA Loew. Echo Lake, June 27.
E. RUFESCENS Loew. Common, June 7-July 17.
E. LONGIPES Liv. Echo Lake, July 17.
E. sp. Station F241, April 21.

RHAMPHOMYIA Meigen

- R. AMPLIPEDIS Coq. Bar Harbor; S. W. Harbor, June 13-20.
R. AMERICANA Wied. S. W. Harbor, June 24.
R. APERTA Loew. Record of capture lost.
R. ARCUATA Coq. Seal Harbor, Sept. 8.
R. BASALIS Loew. Bar Harbor; Echo Lake, June 7-July 12.
R. CANDICANS Loew. S. W. Harbor; Long Pond, July 10-17.
R. DEBILIS Loew. N. E. Harbor; Long Pond, June 29-July 16.
R. GILVIPES Loew. Bar Harbor; S. W. Harbor; Long Pond, June 13-July 16.
R. GRACILIS Loew. N. E. Harbor; Bar Harbor, July 26-Aug. 18.
R. IRREGULARIS Loew. Long Pond, June 27.
R. LITURATA Loew. Bar Harbor, June 8.

- R. LUTEIVENTRIS Loew. Bar Harbor, S. W. Harbor, Echo Lake, June 13-27.
R. MANCA Coq. Echo Lake; Bar Harbor; Salisbury Cove, July 12-27.
R. MUTABILIS Loew. Bar Harbor; Long Pond, June 16-July 16.
R. PHEMIUS Walk. Bar Harbor; Echo Lake, June 15-17.
R. PRIAPULUS Loew. Bar Harbor; Echo Lake; S. H. Harbor, June 13-July 10.
R. PULLA Loew. Bar Harbor; Long Pond; S. W. Harbor, June 9-July 30.
R. PUSIO Loew. S. W. Harbor, June 24.
R. RUSTICA Loew. Bar Harbor; Long Pond, Aug. 18-21.
R. SETOSA Coq. Bar Harbor, June 9-July 17.
R. TERSA Coq. S. W. Harbor, June 24.
R. UMBILICATA Loew. Indian Pt. swarming on *Solidago*, Aug. 25.
R. UMBROSA Loew. Long Pond, June 27.
R. VALGA Coq. Bar Harbor, June 7.
R. VARA Loew. S. W. Harbor; Echo Lake, June 20-27.
R. VIRGATA Coq. S. W. Harbor, June 21. Station F420.

CLINOCERA Meigen

- C. CONJUNCTA Loew. Green Mt., July 25.
C. CTENISTES Mel. Bar Harbor; Duck Brook, June 4-13.

CHELIPODA Macquart

- C. ELONGATA Mel. Echo Lake; S. W. Harbor, July 12-Sept. 3.

HEMERODROMIA Meigen

- H. NOTATA Loew. Long Pond, July 16-Aug. 21.
H. PALLORIS Coq. Bar Harbor; Duck Brook, July 20-30.
H. SCAPULARIS Loew. Jordan Pond; Long Pond, June 10-July 16.

TACHYPEZA Meigen

- T. FENESTRATA Say. Record of capture lost.
T. ROSTRATA Loew. Bar Harbor; N. E. Harbor (Minot), June 1-Sept. 5.

PLATYPALPUS Macquart

- P. AEQUALIS Loew. Narrows, July 27.
P. CRASSIFEMORIS Fitch. S. W. Harbor, July 13.
P. FLAVIROSTRIS Loew. Echo Lake; Green Mt., July 12-25.
P. HOLOSERICUS Melander. Lab., July 22.
P. SUTOR Mel. S. W. Harbor, July 13.

DRAPETIS Meigen

- D. ARMATA Mel. Narrows; Eden, July 15-27.
D. GILVIPES (Loew). Record of capture lost.
D. SPECTABILIS Mel. Narrows, July 27.
D. PARVICORNIS Mel. Narrows, June 9; Eden, July 25.

DOLICHOPIDAE. The Long-headed Flies

Search for these in swamps or on streams where they feed upon smaller insects. Most of the species listed are common here but the numbers vary from year to year. Larvae live in mud, grass stems, under bark of rotting wood.

LAXINA Curran

This genus was erected by Curran for certain species formerly placed in *Sciapius*, *Psilopus* and *Condylostylus*.

- L. CAUDATUS Wied. Wood road on ridge west of Sunken Heath sweeping ferns, Aug. 2. Penikese, July 15-25.
L. FLAVIPES Aldr. Penikese, July 15.
L. SCOBINATOR Loew. Salisbury Cove, July 15-25.

CONDILOSTYLUS Bigot

- C. SIPHO Say. Laboratory, July 5.

SCIAPUS Zeller (*Psilopus* Meigen)

- S. TENER Loew. Salisbury Cove, July 15.

DOLICHOPUS Latreille

- D. ALBICILIATUS Loew. Bar Harbor, July 13–Sept. 9.
D. ADULTUS Van D., Cole & Aldr. Echo Lake, June 17.
D. BREVIMANUS Loew. Penikese, July 11.
D. CALAINUS Mel. & Brues. Bar Harbor, July 10.
D. CALCARATUS Aldr. Station F334.
D. CANADENSIS Van D., Cole & Aldr. Penikese, July 14; S. W. Harbor.
D. COMATUS Loew. Common, June 11–Sept. 7.
D. CUPRINUS Wied. Bar Harbor; Narrows, July 22–27.
D. DEFLECTUS Van D., Cole & Aldr. Bar Harbor, Sept. 9.
D. DISCIFER Stannius. Common, June 13–July 27.
D. DOMESTICUS Van D. New Mill Meadow, Oct. 3.
D. FLAVILACERTUS V-Day. Station F405.
D. FULVIPES Loew. Common, June 13–July 15.
D. GENUALIS Van Duzee. Bar Harbor, July 1 (Br.).
D. IDONEUS Van D., Cole & Aldr. Bar Harbor, June 30–Aug. 18.
D. INCISURALIS Loew. One female taken on wild carrot. Seal Cove Brook, F215.
D. INDIGENA Van D., Cole & Aldr. Bar Harbor, Aug. 18.
D. LONGIMANUS Loew. Echo Lake; Bar Harbor, July 10–22.
D. MARGINATUS Aldr. Bar Harbor; “Narrows,” June 13–July 27.
D. MELANOCERUS Loew. Witch Hole Pond; Bar Harbor, July 30–Sept. 13.
D. MULTISETOSUS Van D., Cole & Aldr. Bar Harbor, July 10.
D. ORNATIPENNIS Van D., Cole & Aldr. “Heath,” Salisbury Cove; Duck Brook, Aug. 9–18.
D. PALAESTRICTUS Loew. Penikese, July 11.
D. PENICILLATUS Van D., Cole & Aldr. Penikese, July 11.
D. PLUMIPES Scop. S. W. Harbor, July 15.
D. PORPHYROS Van D., Cole & Aldr. S. W. Harbor, July 16.
D. PUGIL Loew. Tremont; Narrows, June 9–July 27.
D. RAMIFER Loew. S. W. Harbor, July 13.

- D. REMIPES* Wahlberg. Witch Hole Pond; Bar Harbor, July 26-30. On water-lily pads.
D. SCOPARIUS Loew. Duck Brook; Bar Harbor, June 13-22.
D. SETIFER Loew. S. W. Harbor; Salisbury Cove, July 13-15.
D. SETOSUS Loew. S. W. Harbor, July 13.
D. SINCERUS Mel. Long Pond; Bar Harbor, July 16-Aug. 18.
D. SLOSSONAE Van D., Cole & Aldr. Echo Lake; Bar Harbor, June 17-July 21.
D. SOCIUS Loew. S. W. Harbor; Long Pond, July 15-16.
D. SOCIUS var. *GLADIUS* Van D., Cole & Aldr. Salisbury Cove, July 15.
D. VARIABILIS Loew. Bar Harbor, July 20-Sept. 11.
D. GRACILIS Van D. S. W. Harbor, July 15-Aug. 23. Toad Hole on ferns in shade, F337.
D. VIRGA Coq. Penikese, July 14.
D. WHEELERI Mel. & Brues. S. W. Harbor, July 15.

PELASTONEURUS Loew

- P. LAMELLATUS* Loew. Tremont; Narrows, June 20-July 27.
P. VAGANS Loew. Bar Harbor, Sept. 13.

PARACLIUS Loew

- P. VICINUS* Aldr. Narrows, July 27.

TACHYTRECHUS Loew

- T. MOECHUS* Loew. Witch Hole Pond, June 13.

MEDETERUS Fischer von Waldheim

- M. MODESTUS* Van Duzee. Bar Harbor, June 11.
M. VANDUZEI Curran. Bred from larch, June 15, '43.
M. VITTATUS Van D. Station F402.
M. sp. Station F402.

GYMNOPTERNUS Loew

- G. ALBICEPS* Loew. Jordan Pond, June 10.
G. CHALCOCHRUS Loew. Long Pond, July 16.

G. DESPICATUS Loew. Station F343.

G. FREQUENS Loew. Found on herbage near water. Toad Hole, F338.

G. LIVIDIFRONS Van Duzee. Sweeping Section 40, June 9.

G. NIGRIBARBUS Loew. Found in damp places. F341.

G. OBTUSICAUDA Van Duzee. Wood road to north of Sunken Heath F340. Scarce.

G. OPACUS Loew. Frequents damp places with rank vegetation. Section 21 in August.

G. SPECTABILIS Loew. Echo Lake, June 27.

G. SUBDILATATUS Loew. Bar Harbor, Aug. 12.

G. SUBULATUS Loew. Common, July 13-27.

LIANCALUS Loew

L. GENUALIS Loew. Western Mt., Sept. 8 (Alexander).

ARGYRA Macquart

A. ANGUSTATA Van Duzee. Echo Lake, July 17, 1918.

A. CALCEATA Loew. Bar Harbor, July 19; Salisbury Cove, Aug. 9.

A. ROBUSTA Johns. Bar Harbor, June 11.

CHRYSOTIMUS Loew

C. DELICATUS Loew. Salisbury Cove, July 14.

C. PUSIO Loew. Corfield at light, Aug. 16.

NEURIGONA Rondani

N. FLORIDULA Wheeler. Common, July 13-July 16.

N. DEFORMIS Van Duzee. Bar Harbor, June 21.

N. NITIDA Van Duzee. Bar Harbor, July 11.

MILLARDIA Curran

M. INTENTUS Aldr. Narrows, Aug. 13.

HYDROPHORUS Fallén

- H. AESTUANS Loew. Echo Lake; Sand Beach, June 17–Sept. 13.
H. CHRYSOLOGUS Walk. S. W. Harbor; Bar Harbor, July 13–Aug. 10.
H. INTENTUS Aldr. Narrows, Aug. 13.
H. PIRATA Loew. Bar Harbor, June 21.

RHAPHIUM Meigen (*Porphyrops* Meigen)

- R. FUMIPENNIS (Loew). Bar Harbor; Echo Lake, June 15–27.
R. LONGIPES (Loew). Echo Lake; Long Pond, July 12–16.
R. MELAMPUS (Loew). Long Pond, June 27.
R. NIGRICOXA Loew. S. W. Harbor, June 16.
R. SLOSSONAE Johns. Bar Harbor, July 26.

LEUCOSTOLA Loew

- L. CINGULATA Loew. Bar Harbor; Echo Lake, June 20–Sept. 7.

DIAPHORUS Meigen

- D. GIBBOSUS Van Duzee. S. W. Harbor, June 25–July 11.
D. OPACUS Loew. Salisbury Cove, July 25.

CHRYBOTUS Meigen

- C. AFFINIS Loew. S. W. Harbor; Salisbury Cove, July 13–16.
C. BELLUS Van Duzee. Sweeping ferns in shade near Toad Hole, July 26.
C. DISCOLOR Loew. Same as above. F399.
C. JOHNSONI Van Duzee. One specimen taken Corfield at light, Aug. 16.
C. SUBJECTUS Loew. Corfield on Azelia, July 4.

C. VULGARIS Van Duzee. Witches Hole Brook sweeping rank grass and ferns, Aug. 7.

C. sp. Bar Harbor (Br.), June 28.

CAMPSICNEMUS Walker

C. HIRTIPES Loew. Corfield at light, Aug. 16.

C. WHEELERI Van Duzee. Bar Harbor, Aug. 14.

SYMPYCENUS Loew

S. FRONTALIS Loew. Station F343.

S. LINEATUS Loew. Salisbury Cove; Long Pond, Aug. 13–Sept. 7.

S. LUTEIPES Van Duzee. Bar Harbor, July 22.

LONGICHOPTERIDAE. The Pointed-wing Flies

Moist places is where these are but I have taken them by sweeping clover. The larvae live under decaying leaves and on the underside of damp logs in swales.

LONGICHOPTERA Meigen

L. DUBIA Curran. Two of these scarce flies which are interesting from a cytological angle came to light at Corfield Aug. 16, '39.

PHORIDAE

These may be taken by sweeping around decaying vegetation. Doctor Curran's suggestion that someone collect them according to their habits and study them would be the real method.

CHAETOPLEUROPHORA Schmitz

C. CURVINERVIS Beck. S. W. Harbor, Aug. 13; mating pair.

DIPLONEURA Lioy

D. CONCINNA Meig. Sunken Heath. F345.

PHORA Latreille

P. VELUTINA Meig. Green Mt.; Bar Harbor, Aug. 17–Sept. 10.

P. ATERRIMA Fab. Echo Lake; Bar Harbor; S. W. Harbor, July 12–22.

HYPOCERA Lioy

H. FEMORATA Meig. S. W. Harbor; Echo Lake; N. E. Harbor (Minot), July 13–Aug. 8.

CONICERA Meigen

C. ATRA Meig. “Mt Desert,” July 31 (McAtee).

GYMNOPHORA Macquart

G. QUARTOMOLLIS Schmitz (*G. arcuata*, auct.). “Mt. Desert,” July 30 (McAtee).

APOCEPHALUS Coquillett

A. BOREALIS Brues. Salisbury Cove, July 17, 1923. Type locality.

MEGASELIA Rondani (*Aphiochaeta* Brues)

M. CILIATA Bett. Bar Harbor, July 22.

M. MINOR Zett. “Mt. Desert,” July 28 (McAtee).

M. NIGRICEPS Loew. N. E. Harbor (Minot); Long Pond; Bar Harbor, July 26–Sept. 11.

M. PICTA Lehm. Bar Harbor; Green Mt., N. E. Harbor (Minot), July 21–Sept. 13.

M. PULICARIA Fall. “Mt. Desert,” July 31 (McAtee).

M. PYGMAEA Zett? “Mt. Desert,” July 31 (McAtee).

M. RUFIPES Meig. Bar Harbor, July 22–Sept. 10.

M. RUFICORNIS Meig. Record of capture lost.

M. STRAMINIPES Mall. Bar Harbor, July 22.

M. sp. Bred from lepidoptera nest on poplar Aug. 1 (Br.).

PLATYPEZIDAE. The Flat-footed Flies

The larvae live in fungi and the adults are best taken by sweeping foliage.

AGATHOMYIA Verrall

- A. NOTATA Loew. Bar Harbor; Duck Brook; S. W. Harbor,
July 24-30.
A. PULCHELLA Johns. Bar Harbor; Witch Hole Pond, July
22-Aug. 18.
A. TALPULA Loew. Echo Lake; Long Pond, July 27-July 16.

CALLIMYIA Meigen

- C. VELUTINA Johns. Duck Brook; Long Pond, June 13-
July 16.

PLATYPEZOIDES Johnson

- P. DIVERSA Johns. Bar Harbor, Sept. 11. Type locality.

PLATYPEZA Meigen

- P. ANTHRAX Loew. Echo Lake; Bar Harbor, Sept. 7-10.
P. BANKSI Johns. Laboratory Sept. 30.
P. PALLIPES Loew. (*Calotarsa ornatipes* Town. ♂). Echo
Lake; Bar Harbor, Sept. 7-10.
P. VELUTINA Loew. Long Pond, Aug. 31.

MICROSANIA Zetterstedt

- M. STIGMATICALIS Zett. "Mt. Desert," July 31 (McAtee).

PIPUNCULIDAE. The Big-headed Flies

The larvae are parasitic on bugs and the adults are found where the hosts abound.

CHALARUS Walker

- C. SPURIUS Fall. Bar Harbor, Aug. 16.

VERRALLIA Mik

- V. PILOSA Zett. Bar Harbor; S. W. Harbor, June 7-17.

PIPUNCULUS Latreille

- P. AEQUUS Cress. Duck Brook, Sept. 11, 1922.
 P. AFFINIS Cress. Station F349 and F375. A scarce form.
 P. ATER Meig. Bar Harbor; Echo Lake, July 12.
 P. ATLANTICUS Hough. Bar Harbor, June 7.
 P. CAUDATUS Cress. Bar Harbor; Upper Hadlock Pond; S. W. Harbor, June 9-25.
 P. FUSCUS Loew. S. W. Harbor; Salisbury Cove, July 20-23.
 P. MINOR Cress. Salisbury Cove, July 15.
 P. NIGRIPES Loew. Salisbury Cove; Green Mt., July 24-25.
 P. PALLIPES Johns. Bar Harbor; Long Pond, June 10-20.
 P. SCOPARIUS Cress. Salisbury Cove; Echo Lake; S. W. Harbor, July 14-Sept. 5.
 P. SUBOPACUS INDUSTRIUS Knab. Middle Road on *Spiraea* Aug. 6.

SYRPHIDAE. The Flower Flies

This beautiful and almost completely beneficial family may be taken generally around flowers, but there are some which will have to be searched for in their particular habitat. Many resemble the Hymenoptera.

MICRODON Meigen

- M. CONFLICTUS Curr. Witch Hole Pond, July 20; S. W. Harbor, Aug. 26 (Alexander).
 M. COTHURNATUS Bigot. "Great Clearing," north of Sargent Mt., June 10.
 M. MANITOBENSIS Curr. Bar Harbor; S. W. Harbor, June 9-22.
 M. OCELLARIS Curr. Bar Harbor, June 9.
 M. TRISTIS Loew. Bar Harbor, June 8-21.

VOLUCELLA Geoffroy

- V. BOMBYLANUS FACIALIS var. LATERALIS Johns. Bar Harbor; S. W. Harbor; Echo Lake, June 7-27. The larvae are commensal in the nests of bumble bees. The flies closely resemble the various species of bumble bees. Type locality.

CITIBAENA Walker

- C. STRIGATUS Fall. Lunate Onion-fly. Bar Harbor, July 25, 1916 (Metcalf); July 19, 1919.

CHRYSOTOXUM Meigen

- C. DERIVATUM Walk. Salisbury Cove, Aug. 7, 1926.
C. FASCIOLATUM DeG. Long Pond; S. W. Harbor; Bar Harbor, June 17-July 24.
C. PERPLEXUM Johns. Witch Hole Pd.; S. W. Harbor; Green Mt. Summit, July 17-Sept. 6. Material from Mt. Desert was used in naming the species. See B. S. N. S. Occasional Papers, Vol. 5, p. 69-72, '23.

PARAGUS Latreille

- P. BICOLOR Fab. Salisbury Cove, July 14.
P. TIBIALIS Fall. Bar Harbor; Salisbury Cove, July 22-24.

LEUCOZONA Schiner

- L. AMERICANA Curr. Bar Harbor; Echo Lake; S. W. Harbor, June 9-23.

DIDEA Macquart

- D. FUSCIPES Loew. Bar Harbor; Echo Lake, June 15-17.

SYRPHUS Fabricius

- S. AMALOPIS O. S. Bar Harbor; Echo Lake, June 9-July 12.
S. ARCUATUS Fall. S. W. Harbor, June 21.
S. PERPLEXUS Osburn. Echo Lake; S. W. Harbor, July 12-Aug. 20.
S. DISJECTUS Will. Bar Harbor; Salisbury Cove; "Narrows," July 22-Aug. 13.
S. EMARGINATUS Say. Bar Harbor, June 15-Aug. 14.
S. FELIX O. S. Echo Lake, July 17.
S. JOHNSONI Curr. Bar Harbor, June 22-23.
S. LATIFASCIATUS Macq. (*abbreviatus* Will.). Salisbury Cove, July 23-24.

- S. LAXA* O. S. S. W. Harbor; Bar Harbor; Salisbury Cove, June 21–Sept. 11.
- S. LIMATUS* Hine. Bar Harbor, June 13, 1931.
- S. NITENS* Zett. “Narrows,” Aug. 13.
- S. POMUS* Curr. Bar Harbor, Aug. 
- S. RECTUS* O. S. Bar Harbor; Green Mt.; S. W. Harbor, July 7–Aug. 20.
- S. RIBESII* Linn. Common, July 10–Sept. 9.
- S. RIBESII* var. *VITTAFRONS* Shan. Bar Harbor; Long Pond; Salisbury Cove; S. W. Harbor, June 8–Sept. 6.
- S. TORVUS* O. S. Common, June 15–Sept. 22. During the first warm days in spring, the adults emerge and eggs are laid on the first colonies of aphids appearing on the shoots of various plants, and they continue through the summer living on various forms of aphids and undoubtedly destroy many of the sexual females in September. Taken as late as September 22nd. Owing to an open winter, there was a large aphid population in the spring of 1937, and by the first of July these flies were in enormous quantities and would rise in swarms, while at the same time the numbers in the other species in the genus remained the same as other years.
- S. VENUSTUS* Meig. Bar Harbor; Salisbury Cove; S. W. Harbor, June 9–22.
- S. WIEDEMANNI* Johns. Bar Harbor; “Narrows,” June 9–Aug. 13.

EPISTROPHE Walker

- E. ARCTICUS* Zett. Bar Harbor, Sept. 11, 1922.
- E. DIVERSIPES* Macq. Common, June 8–Aug. 11.
- E. FISHERI* Walt. S. W. Harbor, Aug. 22. Station F263.
- E. GENICULATUS* Macq. S. W. Harbor; Green Mt.; Bar Harbor, June 22–Sept. 11.
- E. GENUALIS* Will. Bar Harbor; Salisbury Cove; S. W. Harbor, June 7–21.
- E. GROSSULARIAE* Meig. Bar Harbor; Green Mt., July 22–25. Station F265.

- E. MENTALIS Will. Bar Harbor, June 8–13. Station F165.
E. ORONOENSIS Metcalf. Bar Harbor, July 19.
E. SEXQUADRATUS Walk. Bar Harbor, Sept. 10, 1922.
E. UMBELLATORUM Fab. Bar Harbor; Green Mt.; Long Pond,
June 11–Aug. 17.
E. XANTHOSTOMUS Will. Bar Harbor, July 19.

BACCHA Fabricius

- B. OBSCURICORNIS Loew. Laboratory from the first of June
to end of October. Eden in Aug.

DOROS Meigen

- D. AEQUALIS Loew. Bar Harbor, June 6; Eden, June 12.
Scarce.

TOXOMERUS Macquart

- T. GEMINATUS Say. S. W. Harbor; Bar Harbor, June 21–
July 17.

MESOGRAMMA Loew

- M. MARGINATUM Say. Common around truck gardens in Eden
in late August. "Narrows," July 18–27.

SPHAEROPHORIA St. Fargeau and Serville

- S. CYLINDRICA Say. Larvae feeding on aphids on *Spirea*.
Bred (Br.).
S. MENTHASTRI Linn. Common, June 21–July 24.
S. NOVAEANGLIAE Johns. Upper Hadlock Pond; Echo Lake,
June 10–July 12.
S. ROBUSTA Curran. Bar Harbor; Eden wood-road, May 25–
July 31.

ALLOGRAPTA Osten Sacken

- A. OBLIQUA Say. Bar Harbor, July 29; Seal Harbor (D.
Rockefeller).

PYROPHAENA Schiner

- P. GRANDITARSUS Foerster. S. W. Harbor, July 15. Newport Meadow on *Solidago*, Sept. 4.
P. ROSARUM Fab. Bar Harbor; S. W. Harbor; Salisbury Cove, June 13–Aug. 9.

PLATYCHEIRUS St. Fargeau and Serville

- P. CHAETOPODUS Will. Bar Harbor, June 8.
P. ERRATICUS Curran. Auto net along Middle Road, June 8–July 25.
P. IMMARGINATUS Zett. S. W. Harbor; Bar Harbor (Metcalf), June 15–July 25.
P. PELTATUS Meig. Bar Harbor, June 16–July 17.
P. QUADRATUS Say. "Narrows"; Salisbury Cove, June 9–July 27.

MELANOSTOMA Schiner

- M. ANGUSTATUM Will. Bar Harbor, June 14.
M. CONFUSUM Curr. S. W. Harbor, June 16.
M. OBSCURUM Say. Bar Harbor; "Narrows"; Long Pond, June 21–Sept. 7.
M. PICTIPES Bigot. Sweeping saw-grass and the like along the Barcelona, Aug. 1, F339; Station F417.

CARTOSYRPHUS Bigot

- C. PALLIPES Loew. Common, June 26–July 30.
C. RITA Curran. Bubble Br. on blackberry flowers, June 15.
C. SIMILIS Shan. Section 15 on *Solidago*, Oct. 10.
C. SLOSSONAE Shan. "Great Clearing," north of Sargent Mt., June 10.
C. TRISTIS Loew. Common, June 12–Sept. 6.

CHEILOSA Meigen

- C. ORILLIAENSIS Curr. S. W. Harbor, June 21.

PIPIZA Fallén

- P. FEMORALIS Loew. Bar Harbor, June 8.
P. NIGROPILOSA Will. Bar Harbor, June 8.
P. QUADRIMACULATA Panz. Bar Harbor; Echo Lake, June 13-27.
P. sp. Bred from galls of *Pemphigus rhois* on sumac (*Rhus*), Aug., 1938.

CNEMODON Egger

- C. CALCARATA Loew. They like the wild rose. Eden X Town Hill road, July 10.
C. ELONGATA Curr. Bar Harbor, June 9-17.
C. PISTICOIDES Will. Long Pond; Salisbury Cove, July 16-24.

HERINGIA Rondani

- H. SALAX Loew. Bar Harbor, July 20-22.

PIPIZELLA Rondani

- P. PUBESCENS Loew. Bar Harbor; S. W. Harbor, June 15-July 15.
P. RECEDENS Walk. Bar Harbor; S. W. Harbor, June 21-July 15.

CHRYSOGASTER Meigen

- C. NIGRIPES Loew. Bar Harbor, July 21.
C. PULCHELLA Will. S. W. Harbor; Bar Harbor, July 10-19.

NEOASCIA Williston

- N. GLOBOSA Walk. Bar Harbor, Aug. 10.

SPHEGINA Meigen

- S. FLAVIMANA Mall. Echo Lake; Bar Harbor, June 17-Aug. 10.
S. PETIOLATA Coq. S. W. Harbor; Echo Lake; Bar Harbor, June 16-July 27.
S. RUFIVENTRIS Loew. Laboratory, July 7.

HAMMERSCHMIDTIA Shummel

H. FERRUGINEA Fall. Bar Harbor, June 11-17.

RHINGIA Scopoli

R. NASICA Say. Bar Harbor; S. W. Harbor; Narrows, June 21-Aug. 13.

BRACHYOPA Meigen

B. DIVERSA Johns. Bar Harbor, June 8, 1921.

B. NOTATA O. S. Laboratory, May 22.

B. PERPLEXA Curran. Around Corfield in May and June.

CYNORHINA Williston

C. ANALIS Macq. Bar Harbor; June 8, 9; Corfield, June 8-30.
Scarce.

C. BADIA Walk. North end, Long Pond, June 26.

C. CONFUSA Johns. Bar Harbor; Long Pond; Echo Lake,
June 17-26.

C. NIGRA Will. Corfield on vines, June 1-13.

SOMULA Macquart

S. DECORA Macq. Bar Harbor; Corfield, June 11-July 8.

BRACHYPALPUS Macquart

B. OARUS Walk. (*B. frontosus* Loew). Witch Hole Pond,
June 13.

SPILOMYIA Meigen

S. FUSCA Loew. Bar Harbor, July 24-Aug. 16.

S. QUADRIFASCIATA Say. Witch Hole Pond, Sept. 11, 1922.

TEMNOSBOMA St. Fargeau and Serville

T. AEQUALE Loew. Bar Harbor; Green Mt.; Long Pond, June 9-July 25.

T. ALTERNANS Loew. Bar Harbor; Green Mt., June 15-July 25.

- T. APIFORME* Fab. Bar Harbor; Green Mt.; Long Pond; Eden; Sec. 28, June 9–July 25.
T. BOMBYLANUS Fab. Bar Harbor, June 15.
T. EXCENTRICUM Hart. Bar Harbor; Witch Hole Pond, June 8–13.
T. TRIFASCIATA Robt. One specimen taken on *Spiraea*, Eden, July 12, '37.
T. VENUSTUM Will. Bar Harbor; Salisbury Cove, June 9.
T. VESPIFORME Linn. Corfield, July 10–11. Scarce.

SYRITTA St. Fargeau and Serville

- S. PIPIENS* Linn. Bar Harbor; Tremont; Laboratory; Station F408, June 27–Aug. 23.

TROPIDIA Meigen

- T. QUADRATA* Say. Bar Harbor; S. W. Harbor, June 11–July 25.

CONDIDEA Coquillett

- C. LATA* Coq. Foot of Pickett Mt., June 21. On flower of the *Viburnum*.
C. SEXFASCIATA Walk. South of Manset; S. W. Harbor, June 16, 1921.

SERICOMYIA Meigen

- S. BIFASCIATA* Will. Echo Lake, June 17–July 12.
S. CHRYSOTOXOIDES Macq. Bar Harbor; Echo Lake; S. W. Harbor, June 9–Sept. 8.
S. MILITARIS Walk. S. W. Harbor; Bar Harbor; Echo Lake, June 22–Sept. 8.

ERISTALIS Latreille

- E. ARBUSTORUM* Linn. Common, June 15–Sept. 6.
E. BASTARDI Macq. S. W. Harbor; Salisbury Cove; Bar Harbor, June 22–Sept. 9. Appears just before the middle of June when *Nymphaea advena* blooms, and is found on various flowers around the edges of ponds until the cold days in September. Common, but not numerous.

- E. COMPACTUS Walk. Bar Harbor; Echo Lake, June 13-17.
 E. DIMIDIATUS Wied. Bar Harbor; S. W. Harbor; Salisbury Cove, June 11-Sept. 6.
 E. FLAVIPES Walk. Bar Harbor; S. W. Harbor, June 11-July 25. Green Mt. summit, July 26.
 E. NEMORUM Linn. Bar Harbor; Salisbury Cove, July 24.
 E. OBSCURUS Loew. Witch Hole on blackberry blossoms, June 16. Scarce.
 E. SAXORUM Wied. Witch Hole Pond, June 13.
 E. TENAX Linn. "Drone fly." Common, July 10-Sept. 22. The larva is known as the "rat-tailed larva" and lives in putrid water.
 E. TRANSVERSUS Wied. Bar Harbor; S. W. Harbor; Salisbury Cove, June 15-Sept. 6.

MERODON Meigen

- M. EQUESTRIS Fab. Narcissus fly. Bar Harbor, July 25 (Metcalf); Corfield, June 25-29. Introduced. The larva lives in Narcissus and other bulbs.

MALLOTA Meigen

- M. POSTICATA Fab. Bar Harbor, June 8-July 27; Corfield June 27; Duck Brook, July 1; Bubble Brook on blackberry blossoms, July 2.

POLYDONTOMYIA Williston

- P. CURVIPES Wied. Narrows, June 9-Aug. 13.

LEJOPS Rondani

- L. RELICTUS Curran & Fluke (*Helophilus chrysostoma* auct., not Wied.). Bar Harbor, July 10.
 L. LUNULATUS Meig. (*H. hamatus* Loew). Witch Hole Pond; Bar Harbor; Salisbury Cove, June 13-July 18.
 L. (EURHIMYIA) STIPATUS Walk. (*H. conostoma* Will.). Witch Hole Pond, June 13.

PARHELOPHILUS Girschner

- P. REX Curran & Fluke. Bar Harbor, July 10.
 P. LAETUS Loew. Bar Harbor; S. W. Harbor, June 13–
 July 10.
 P. OBSOLETUS Loew. Bar Harbor; S. W. Harbor, June 13–21.

ELOPHILUS Meigen

- E. ANNULIFERA Bigot. Station F263; Bar Harbor (Br.) June 4; Pool on Deer Brook; Jordan Mt. 1000 ft. alt. Sept. 3; Station F408.
 E. ANTHREAS Wlk. One came in lab., June 9, '43.
 E. BOREALIS Staeg. The only place where I have taken this species has been around the brackish pools at the Narrows in July.
 E. CURVIPES var. SATANICA Bigot. Bar Harbor, June 11.
 E. EJUNCIDA Say. Bar Harbor; S. W. Harbor, June 22–July 7.
 E. FASCIATUS Wlk. They frequent wood roads in autumn such as the road opposite Penikese. F160.
 E. LIBO Wlk. At base of spruce. Larva were under bark. F402.
 E. OBSCURA. Same records as for *fasciatus*.
 E. PIGRA Fab. Station F405; F408.
 E. SUBFASCIATA Loew. Long Pond, July 10.
 E. TUBERCULATUS Rand. Laboratory, Oct. 1.

CONOPIDAE. The Thick-headed Flies

Collecting around flowers is the best place. As is the case with the Syrphids, many resemble the Hymenoptera.

PHYSOCEPHALA Schiner

- P. FURCILLATA Will. Bar Harbor; Great Pond; S. W. Harbor, July 24–Aug. 23. Common.

ZODION Latreille

- Z. FULVIFRONS Say. S. W. Harbor; Bar Harbor; Green Mt.,
July 15-25.
Z. INTERMEDIUM Banks. Bar Harbor, Aug. 16.
Z. PERLONGUM Coq. Echo Lake, July 12.

MYOPA Fabricius

- M. CLAUSA Loew. Record of capture lost.
M. VICARIA Walk. Station F241. A scarce early form.

OCCEMYA Desvoidy (*Thecophora* Loew)

- O. ABBREVIATA Loew. Echo Lake; S. W. Harbor, June 17-
July 20.
O. LORARIA Loew. Bar Harbor; Sand Beach, Great Head,
July 24-Sept. 13.

OTITIDAE. The Picture-wing Flies

They frequent moist places and the larvae are said to live
in decaying plants.

SEIOPTERA Kirby

- S. VIBRANS Linn. Jordan Pond, July 10.
S. DUBIOSA Johns. N. E. Harbor, June. Material was used
in naming the species. B.S.N.H. Occasional Papers, Vol. 5,
p. 11-17, '21. Type locality.

EUXESTA Loew

- E. BELLA Loew. Mt. Desert, Aug. 27, 1934.
E. NOTATA Wied. Record of capture lost.

STENOMYIA Loew

- S. FERA Will. A female was taken by (Br.) Aug. 7, '37. Mr.
Alan Stone writes "This is an interesting record, the species
hitherto not having been found east of the northern Pacific
Coast States. Dr. Brennan has also examined this specimen
and considers it to be *fera*."

CHAETOPSIS Loew

- C. APICALIS* var. *DUPLICATA* Johns. Common on salt marshes; Narrows, June 6–July 27. Material from Mt. Desert was used in the naming of the species. See B.S.N.H. Occasional Papers, Vol. 5, p. 11–17, '21. Type locality.
- C. AENEAE* Wied. Common on the salt marshes; Narrows, June 9–July 27.
- C. FULVIFORS* Macq. Bar Harbor, Aug. 10–16.
- C. MASSYLA* Walk. Common on the Great Heath and fresh water meadows, July 15–Sept. 11.

PSEUDOTEPHRITIS Johnson

- P. VAU* var. *CONJUNCTA* Johns. Mt. Desert material used in naming this species. B.S.N.H. Vol. 5, p. 11–17, 1921.
- P. METZI* Johns. Record of capture lost.

RIVELLIA Desvoidy

- R. VIRIDULANS* Desv. Penikese, July 13–Aug. 9.

TEPHRONOTA Loew

- T. NARYTIA* Walk. Sand Beach, Great Head; Eden, July 11–18.

PSAIROPTERA Wohlberg

- P. NUBECULA* Johns. N. E. Harbor, July 6 (Minot).

MELIERIA Desvoidy

- M. SIMILIS* Loew. Section 11 in rank grass, July 21.

TRUPANEIDAE

One of the most interesting groups to collect for the larvae live in flower buds, make galls, mine in leaves, etc. The adults may be taken by sweeping flowers but it is better and more interesting to raise them.

ZONOSEMA Loew

- Z. FLAVONOTATA* Macq. N. E. Harbor, Aug. 10 (Minot).

RHAGOLETIS Loew

- R. FAUSTA O. S. Bar Harbor, June 11. The larvae infest cherries.
R. POMONELLA Walsh. Blueberry Maggot. Bred from blueberries (Br.), July 13.
R. SYMPHORICARPI Cur. Bar Harbor, July 15 (Br.).

MYOLEJA Rondani

- M. NIGRICORNIS Doane. Long Pond; Penikese, June 20–July 18.

TERELLIA Desvoidy

- T. FLORESCENTIAE Linn. Common, July 14–Aug. 13. The larvae live in the flower buds of the Canada thistle (*Cirsium arvense*).

NEASPILOTA Osten Sacken

- N. ACHILLEAE Johns. Salisbury Cove; S. W. Harbor, July 24–28. Frequents the flower buds of yarrow (*Achillea millefolium*).
N. PETIOLATA Prov? June 23 (Br.). Pars on *P. nemorata*.

PROCEIDOPHARES Hendel

- P. ATRA Loew. Bar Harbor, Sept. 16 (Br.).
P. MINUTA Snow. Station F234.

TEPHRITIS Latreille

- T. ALBICEPS Loew. Common, July 11–Aug. 13.
T. ANGUSTIPENNIS Loew. Bar Harbor, June 7.
T. BELLA Loew. Salisbury Cove, July 14–24.
T. PURA Loew. Eden, July 13–14.
T. n.sp. Record of capture lost.

EUTRETA Loew

- E. SPARSA Wied. Bar Harbor, Aug. 15. The larvae form root-galls on goldenrod. Station F210, F214, and F68; Bar Harbor; Eden; Tremont, July 24–Sept. 20.

EUROSTA Loew

E. ASTERIS Harr. (*E. solidaginis* Fitch). Common. The larvae form round galls on the stalks of goldenrod.

E. LATIFRONS Loew. Eagle Lake, July 19.

XANTHACIURA Hendel

X. NIGRICORNIS Doane. Long Pond; Penikese, June 20–July 18.

PALLOPTERIDAE

Along the seashore on vegetation is where these will be found.

PALLOPTERA Fallén

P. SUBARCUATA Johns. N. E. Harbor (Minot); Bar Harbor, July 1–Aug. 13.

P. SUPERBA Loew. N. E. Harbor, June 26 (Minot).

LONCHAEIDAE

General sweeping in shady damp places is the best collecting for this family.

LONCHAEA Fallén

L. AFFINIS Mall. S. W. Harbor; Echo Lake; Bar Harbor, June 13–July 20.

L. ALBICEPS Mall. Bar Harbor; N. E. Harbor, July 20–Aug. 10.

L. ANGUSTITARSIS Mall. Echo Lake, July 12.

L. MARYLANDICA Malloch. Four specimens flew into the laboratory between '37 and '40 July 11–Sept. 19. Scarce.

L. NIGROCILIATA Mall. S. W. Harbor, July 11.

L. LATICORNIS Meig. Bar Harbor, Aug. 10.

L. POLITA Say. Salisbury Cove, June 9.

L. VAGINALIS Fall. Bar Harbor, June 11.

TANYPEZIDAE

In damp woods is the place to look for this small and scarce family.

TANYPEZA Fallén

T. LUTEIPENNIS Knab & Shan. Bar Harbor; N. E. Harbor (Minot); Echo Lake, June 7–July 24.

CALOBATIDAE. The Stilt-legged Flies

Around moist places where there is decaying matter for the larvae to grow in.

CALOBATA Meigen

C. PALLIPES Say. Eden, July 14.

C. UNIVITTA Walk. Bar Harbor, June 15–July 14.

SEPSIDAE

Found around carrion and decaying matter of all kinds.

PANDORA Haliday

P. SCUTELLARIS Fall. Narrows, Aug. 13.

NEMOPODA Desvoidy

N. CYLINDRICA Fab. S. W. Harbor; Salisbury Cove; Duck Brook, July 10–30.

SEPSIS Fallén

S. SIGNIFERA Mel. & Spul. Bar Harbor, July 30; Station F25.

S. SIGNIFERA var. CURVITIBIA Mel. & Spul. Bar Harbor, July 17.

S. VIOLACEA Meig. Echo Lake, June 17; Station F25.

MEROPLIUS Rondani

M. STERCORARIUS Desv. S. W. Harbor, July 13.

THEMIRA Desvoidy

T. MINOR Haliday. S. W. Harbor; Narrows, June 28–Aug. 30.

T. PUTRIS Linn. S. W. Harbor, July 10–13.

T. NIGRICORNIS (Meig.). At sap crack in yellow birch, Apr. 30.

PIOPHILIDAE

PIOPHILA Fallén

- P. CASEI* Linn. Cheese-maggot fly. Bar Harbor; Salisbury Cove, June 7–July 25.
P. NIGRICEPS Meig. Bar Harbor; S. W. Harbor, June 8–July 11.
P. ORIENS Mel. & Spul. Bar Harbor, June 22.

MYCETAULUS Loew

- M. PULCHELLUS* Banks. Bar Harbor, Sept. 10–11.
M. sp. Record of capture lost.

LAUXANIIDAE

LAUXANIA Latreille

- L. CYLINDRICORNIS* Fab. Common, June 26–July 30.

MINETTIA Desvoidy

- M. AMERICANA* Mall. (*M. longipennis* auct.). Bar Harbor, June 15.
M. LUPULINA Feb. Common, June 26–July 21.
M. OBSCURA Loew. S. W. Harbor, July 13.
M. PUNCTICEPS Coq. They come to light at the laboratory in August.

HOMONEURA Wulp

- H. CITREIFRONS* Mall. Bar Harbor; Long Pond, June 13–Aug. 21.
H. COMPEDITA Loew. N. E. Harbor; S. W. Harbor, Bar Harbor, July 6–30.
H. DECEPTOR Mall. Sand Beach, Great Head; Long Pond, July 13–16.
H. DISJUNCTA Johns. Common, June 13–July 12.
H. FRATERNA Loew. Green Mt., Aug. 17.
H. FRONTALIS Loew. N. E. Harbor (Minot); Bar Harbor, July 1–11.

- H. HOUGHII Coq. Station F374.
H. INCERTA Mall. Bar Harbor mating pair, Sept. 20 (Br.).
Long Pond, Aug. 21.
H. PHILADELPHICA Macq. N. E. Harbor (Minot); Bar Harbor, July 1–Aug. 10.
H. SHELDONI Coq. Witch Hole Pond, July 30.

SAPROMYZA Fallén

- S. ANNULATA Mel. Bar Harbor; Echo Lake; S. W. Harbor,
June 15–July 12.
S. BRACHYSOMA Coq. Bar Harbor, June 8.
S. OBTUSILAMELLATA Mall. Bar Harbor, June 7.
S. QUADRILINEATA Loew. Bar Harbor, July 22.
S. ROTUNDICORNIS Loew. Echo Lake; Bar Harbor; N. E. Harbor, July 17–Aug. 11.
S. SERRATA Mall. Bar Harbor, June 11.
S. PICTIVENTRIS Mall. Station F343.

PERISCCELIDAE

Very little is known about this group.

CYAMOPS Melander

- C. NEBULOSA Mel. Salisbury Cove, July 13, 1923.

DROSOPHILIDAE. The Small Fruit Flies

This family which has done so much for genetics frequents fermenting fruit and the like.

CHYMOMYZA Czerny

- C. AMOENA Loew. Salisbury Cove, July 18.

SCAPTOMYZA Hardy

- S. GRAMINUM Fall. Narrows; S. W. Harbor, July 13–Sept. 6.
S. TERMINALIS Loew. Corfield at light, Aug. 16.

DROSOPHILA Fallén

- D. AFFINIS Sturt. Corfield at light, Aug. 16.
D. FUNEBRIS Fab. N. E. Harbor, Aug. 29 (Minot); Echo Lake, Sept. 7.
D. TRANSVERSA Fall. Common, July 17–Aug. 24.
D. MELANOGASTER Meig. Robinson Mt., Sept. 7.

STEGANA Meigen

- S. COLEOPTRATA Scop. Duck Brook; N. E. Harbor; Echo Lake, June 13–Aug. 17.
S. HUMERALIS Loew. Green Mt.; Bar Harbor, July 25–Aug. 16.
S. LEUCOSTOMA Loew. Upper Hadlock Pond; Bar Harbor; Echo Lake, June 10–July 17.
S. MINOR Mall. Bar Harbor; Witch Hole Pond, June 16–Aug. 18.

DIASTATA Meigen

- D. REPLETA Walk. (*D. pulchra* Loew). Salisbury Cove, July 18.
D. VAGANS Loew. Salisbury Cove; Bar Harbor, July 14–Sept. 9.
D. PULCHRA Loew. Sea Wall beating spruce, June 28.

ASTEIIDAE

ASTEIA Meigen

- A. BEATA Aldr. S. W. Harbor, July 13, 1919.

OPOMYZIDAE

They will be found along the seashore and in wet places.

MUMETOPIA Melander

- M. TERMINALIS Loew. Bar Harbor; S. W. Harbor; Echo Lake, June 8–Sept. 3.

ANTHOMYZA Fallén

A. GRACILIS Fall. Echo Lake; S. W. Harbor, July 12–Aug. 27.

A. TENUIS Loew. Common, July 12–Aug. 13.

A. VARIEGATA Loew. N. E. Harbor; Bar Harbor, July 27–Aug. 12.

NEOSSOS Malloch

N. n.sp. Rhodora Meadow from deer bed. Oct. 4 (Br.).

PELOMYIA Williston

P. MALLOCHI Sturt. Narrows, June 9.

AGROMYZIDAE. The Leaf Miners

The larvae make mines in the leaves of most plants. General sweeping is the method.

NAPOMYZA Haliday

N. LATERALIS Fall. Echo Lake, July 17.

AGROMYZA Fallén

A. AENEIVENTRIS Fall. Bar Harbor, June 7.

A. ARTEMISIAE Kalt. (*platyptera* Thom.). S. W. Harbor; Seal Cove; Bar Harbor, July 11–Aug. 8. The larvae mine the leaves of a large number of plants.

A. ATRA Meig. (*angulata* Loew). Bar Harbor, July 11.

A. GENUALIS Mel. (*coloradensis* Mall.). "Great Heath"; S. W. Harbor, July 15.

A. LATERALIS Macq. (*coquilletti* Mall.). Echo Lake; Salisbury Cove, July 12–24.

A. MELAMPYGA Loew (*flaviventris* Johns.). S. W. Harbor, July 13. The larvae mine the leaves of plantain.

A. MOROSA Meig. (*magnicornis* Loew; *luterella* Zett.). Bar Harbor; S. W. Harbor, June 7–Aug. 20. The larvae form swellings in the stems of the iris.

- A. NASUTA Mel. (*madizina* Hend.). "Mt. Desert," July 30 (McAtee).
A. PARVICORNIS Loew. S. W. Harbor; Narrows, July 10-27.
A. PLATYPTERA Thomson. Newport Meadow, F289.
A. POSTICATA Meig. (*terminalis* Coq.). Common, June 8-July 30. The larvae mine the leaves of asters and golden-rods.
A. PUSILLA Meig. (*trifolii* Burg.). S. W. Harbor; Echo Lake; Seal Cove, July 13-Sept. 8. The larvae mine the leaves of various Cruciferae, Compositae, Leguminosae, etc.
A. VARIATA Mall. Narrows, July 27.
A. VIRIDULA Coq. Green Mt., Aug. 17.

PHYTOMYZA Fallén

- P. ALBICEPS Meig. (*P. bipunctata* Loew). Mt. Desert, July 30 (McAtee).
P. AQUILEGIAE Hardy. Columbine leaf-miner. S. W. Harbor, June. The larvae mine the leaves of the columbine.
P. ATRICORNIS Meig. (*chrysanthemi* Kowarz). Marguerite fly. Bar Harbor, July 19. The larvae mine the leaves of chrysanthemum and marguerite.
P. ILICICOLA Loew. Holly leaf-miner. S. W. Harbor; Echo Lake, July 14-17.
P. sp. Station F343.

PHYLLOMYZIDAE

Sweeping grass and bushes in open places is productive.

PARAMYIA Williston

- P. NITENS Loew. "Mt. Desert," July 30. On flowers of *Spiraea* (McAtee).

MEONEURA Rondani

- M. VAGANS Fall. Bar Harbor, June 7.

PHOLEOMYIA Bilimek

P. INDECORA Loew. S. W. Harbor; Salisbury Cove, July 10–25.

MILICHIELLA Giglio-Tos

M. ARCUATA Loew. S. W. Harbor; Salisbury Cove, July 13–15.

EUSIPHONA Coquillett

E. MIRA Coq. Salisbury Cove, July 15–Aug. 7.

DESMOMETOPA Loew

D. SORDIDUM Fall. Salisbury Cove, July 14.

HYPASPISTOMYIA Hendel

H. GLABRA Fall. Bar Harbor; S. W. Harbor; Salisbury Cove, July 24–Aug. 20.

H. LATIPES Meig. Bar Harbor; S. W. Harbor; Salisbury Cove, July 24–Sept. 6.

PHYLLOMYZA Fallén

P. SECURICORNIS Fall. S. W. Harbor, Aug. 26 (Alexander).

DESMOMYZA Curran

D. CONFUSA Curr. Penikese on flowers, July 27.

CHLOROPIDAE. The Frit Flies

May be collected almost anywhere by sweeping.

ELLIPONEURA Loew

E. sp. Bar Harbor; date of capture lost.

MEROMYZA Meigen

M. AMERICANA Fitch. Echo Lake; Eden, July 12–18.

M. FLAVIPALPIS Mall. S. W. Harbor, Sept. 8.

CETEMA Hendel

C. SUBVITTATA Loew. Witch Hole Pond; Bar Harbor, July 30.

CHLOROPISCA Loew

C. GLABRA Meig. (*C. assimilis* Macq.). S. W. Harbor, July 14.

C. GRATA Loew. S. W. Harbor; Bar Harbor, July 11-22.

C. RUFESCENS Coq. Salisbury Cove, July 18.

C. VARICEPS Loew. Eden, Narrows, Aug. 13-25.

DIPLOTOXA Loew

D. VERSICOLOR Loew. Common, July 17-Aug. 23.

EPICHLOROPS Becker

E. EXILIS Coq. Salisbury Cove, July 15.

CHLOROPS Meigen

C. CONSTRICTA Becker. A common species the larvae of which live in plants and grasses.

C. CROCATA Loew. Station F404.

C. MELANOCERA Loew. S. W. Harbor, July 13.

C. OBSCURICORNIS Loew. Narrows, June 9-Aug. 13.

C. PROXIMA Say. Common, June 17-July 14.

C. SCABRA Coq. Tremont, Aug. 23.

C. SUBNIGRA Coq. S. W. Harbor; Salisbury Cove; Bar Harbor, July 11-Aug. 12.

ANTHRACOPHAGA Loew

A. SANGUINOLENTA Loew. Bar Harbor; S. W. Harbor, June 8-July 14.

PARECTECEPHALA Becker

P. EUCERA Loew. Common, June 9-Aug. 21.

P. SIMILIS Beck. Bar Harbor, July 21.

HIPPELATES Loew

H. FLAVIPES Loew. S. W. Harbor, July 19.

CRASSISETA Von Rössner

C. COSTATA Loew. Salisbury Cove, July 15-30.

C. DECIPIENS Loew. Common, June 7-Aug. 10.

C. EUNOTA Loew. "Mt. Desert," July 30 (McAtee).

C. LONGULA Loew. S. W. Harbor; Salisbury Cove; Bar Harbor, July 14-Aug. 18.

C. NIGRICEPS Loew. Common, July 27-Aug. 16. Bred from cow parsnip bored by *Depressaria heracliiana*.

C. PLANICOLLIS Beck. Witch Hole Pond, Aug. 18.

GAURAX Loew

G. DORRI Johns. Long Pond; Bar Harbor, June 15-27. Type locality.

G. EPHIPIUM Zett. Bar Harbor, Aug. 10.

G. INTERRUPTA Mall. Long Pond, July 16.

MADIZA Fallén

M. NEGLECTA Beck. "Mt. Desert," July 30 (McAtee).

M. NIGRIPALPIS Mall. Tremont; S. W. Harbor; Bar Harbor, Aug. 23-Sept. 9.

M. OSCININA Fall. S. W. Harbor; Green Mt.; Salisbury Cove, July 17-Aug. 26.

M. SETULOSA Mall. "Mt. Desert," July 30.

OSCINELLA Becker (*Botanobia* Lioy)

O. COXENDIX Fitch. Common, July 16-27.

O. FRIT Linn. Narrows, July 27.

O. FRIT var. PUSILLA Meig. Narrows, July 14.

O. INFESTA Beck. Common, July 27-Aug. 14.

O. NITIDISSIMA Meig. (*O. variabilis* Loew). S. W. Harbor, July 13.

- O. NUDIUSCULUS Loew. "Mt. Desert," July 21 (McAtee).
O. SOROR Macq. In rotting birch bark (Br.), Oct. 28.
O. TRIGRAMMA Loew. Narrows; Tremont; Salisbury Cove,
Aug. 13-23.

EPHYDRIDAE. The Shore Flies

Brooks, swamps and shores with the attending vegetation is where these will be found. Look into the blossoms of water-lilies and other aquatic plants.

TRIMERINA Macquart

- T. MADIZANS (Fall.). Bar Harbor, Aug. 16.

CLANONEURUM Becker

- C. CIMICIFORMIS (Halid.). Marsh at the Narrows, Aug. 15, 1920.

DISCOCERINA Macquart

- D. LEUCOPROCTA Loew. Narrows, June 9.

ILYTHEA Haliday

- I. SPILOTA Curtis. Common, June 27-Aug. 21.

RHYSOPHORA Cresson

- R. ROBUSTA Cress. Witch Hole Pond, July 30.

DITRICHOPHORA Cresson

- D. EXIGUA Cress. Bar Harbor, July 22, 1919.
D. PARILIS Cress. Bar Harbor, Aug. 18.

PSILOPA Fallén

- P. ATRIMANA Loew. Bar Harbor, July 24; S. W. Harbor, Sept. 6.
P. LEUCOSTOMA Meig. Narrows, July 27.

OCHTHERA Latreille

O. MANTIS DeG.). Bar Harbor, July 26.

HYDRELLIA R.-Desvoidy

H. ADVENAE Cr. First taken in blossoms of *Nymphaea advena*, July 25, '35. Type locality.

H. CALIGINOSA n.sp. Cress. New Mill Meadow on *Nymphaea advena*, July 25, '35. Type and paratypes in Acad. Natl. Sci. and four paratypes in cabinets.

H. PRUDENS Curr. (*johnsoni* Cress.). Taken with above.

HYDRINA Desvoidy

H. DEBILIS Loew. Green Mt.; Long Pond, July 25–Sept. 7.

H. FORMOSA Loew. Bar Harbor, Aug. 12–16.

H. FUSCICORNIS Loew. F306.

H. OBSCURIPES Loew. Bar Harbor, Aug. 16.

H. PROCTERI Cress. First taken on New Mill Pond in blossoms of *Nymphaea advena*, July 25, '35. Type locality.

H. SCAPULARIS Loew. Narrows, July 27–Aug. 13.

H. TIBIALIS Cress. New Mill Pond on *Nymphaea advena*, July 25.

H. VALIDA Loew. Narrows, July 27–Aug. 13.

H. sp. Penikese, Aug. 15.

LYTOGASTER Becker

L. GRAVIDA Loew. Bar Harbor, July 24.

PARYDRA Stenhammer

P. ALPINA Cress. Long Pond; Bar Harbor, July 16–Aug. 10.

P. BITUBERCULATA Loew. Bar Harbor, Aug. 10.

P. IMITANS Loew. Narrows, Sept. 12.

P. QUADRITUBERCULATA Loew. Bar Harbor, July 20.

P. VARIA Loew. Duck Brook; Bar Harbor, Aug. 18.

DIMOCOENIA Cresson

D. SPINOSA Loew. Narrows, Aug. 13–Sept. 12.

CIRRULA Cresson

C. GIGANTEA Cress. Narrows, Aug. 13–Sept. 12.

EPHYDRA Fallén

E. SUBOPACA Loew. Narrows, Aug. 13.

SCATELLA R.-Desvoidy

S. LUGENS Loew. Bar Harbor, June 11; S. W. Harbor, July 13.

S. STENHAMMERI Zett. Echo Lake, June 17; S. W. Harbor, July 11.

DICHAETA Meigen

D. CAUDATA Fall. Witch Hole Pond, June 13.

NOTIPHILA Fallén

N. ATRIPES Cress. Narrows, Aug. 13.

N. BISPINOSA Cress. Narrows, July 27–Aug. 13.

N. LOEWI Cress. (*N. unicolor* Loew not Walker). Bar Harbor, June 22; New Mill Pond, July 12.

N. OLIVACEA Cress. Bar Harbor, July 26.

N. VITTATA Loew. Bar Harbor, July 20–26.

BRACHYDEUTERA Loew

B. ARGENTATA Walk. S. W. Harbor, June 24.

SCATOPHILA Becker

S. VARIABILIS Cress. S. W. Harbor, Aug. 20.

BORBORIDAE

Another family of which the larvae live in decaying organic matter. Examine such places.

SPHAEROCERA Latreille

S. SUBSULTANS Fab. Station F235.

S. sp. Corfield on *Boletus edulis* in U.S.N.M.

LEPTOCERA Olivier

- L. BRACHYSTOMA Sten. Record of capture lost.
L. CARINATA Spul. Bar Harbor Aug. 15.
L. EXIGUELLA Spuller. Large numbers of these and of the next two species taken opposite Penikese on a large pile of horse bedding, Oct. 17.
L. FERRUGINATA Stenh. Same as above.
L. LUTOSA Stenh. Bar Harbor, Aug. 10.
L. MITCHELLI Mall. Same as above.

BORBORUS Meigen

- B. EQUINUS Fall. Bar Harbor; S. W. Harbor, June 22–July 11.

CLUSIDAE

As the larvae live in decaying wood the adults may be searched for around such places.

CLUSIODES Coquillet

- C. AMERICANA Mall. Green Mt., July 25.
C. (COLUMBIELLA) JOHNSONI Mall. Echo Lake, July 12. Type locality.
C. MELANOSTOMA Loew. Laboratory, June 8–July 3. Scarce.
C. (COLUMBIELLA) NIGRIPALPIS Mall. Bar Harbor, June 17.
C. (CLUSIARIA) ORBITALIS Mall. Bar Harbor, June 13, 1921. Type locality.

CLUSIA Haliday

- C. CZERNYI Johns. Station F384, sweeping. In A.M.N.H.
C. LATERALIS Walk. E. Harbor (Minot), July 4.

CHAMAEMYIDAE

The larvae are predaceous upon aphids. Look for adults around burdock, thistle, and such plants.

LEUCOPSIS Meigen

- L. NIGRICORNIS Egger. Common, June 10–Aug. 13.

CHAMAEMYIA Meigen

- C. ARIDELLA Fall. Sand Beach, Great Head; Long Pond, July 11-21.
C. ELEGANS Panz. Penikese, July 13.
C. JUNCORUM Fall. Upper Hadlock Pond; Salisbury Cove, June 10-July 15.
C. POLYSTIGMA Meig. Salisbury Cove; Tremont, July 14-Aug. 23.

TETANOCERIDAE. The Marsh Flies

Sweeping around ponds and along streams and the edges of swales will take these.

SCIOMYZA Fallén

- S. ARISTALIS Coq. Eagle Lake, July 18.

MELINA Desvoidy

- M. ALBOVARIA Coq. Witch Hole Pond; Bar Harbor, Aug. 18.
M. GRISESCENS Meig. Bar Harbor, Aug. 10.
M. NANA Fall. S. W. Harbor, June 20.
M. PUBERA Loew. Bar Harbor, June 11.
M. TENUIPES Loew. Long Pond, June 20.
M. VITALIS Cress. Sand Beach, Great Head, July 11.

SEPEDON Latreille

- S. PUSILLUS Loew. Upper Hadlock Pond; Bar Harbor, June 10-Aug. 18.
S. FUSCIPPENIS Loew. Mt. Desert, July 13.
S. sp. Great Heath, Aug. 17.

HOPILODICTYA Cresson

- H. SETOSA Coq. Narrows, July 27-Aug. 13.

DICTYA Meigen

- D. PICTIPES Loew. Station F403.
D. UMBROIDES Curr. Large numbers in the reeds along the Barcelona. F339.

TETANOCERA Dumeril

- T. CLARA Loew. Duck Brook; Bar Harbor, Aug. 18.
T. ELATA Fab. Narrows, July 27.
T. PLEBEIA Loew. Common, July 2-24.
T. ROTUNDICORNIS Loew. S. W. Harbor, July 15.
T. TRIANGULARIS Loew. Witch Hole Pond; Eden, July 30-Aug. 7.
T. UNICOLOR Loew. S. W. Harbor; Bar Harbor, July 15-Aug. 10.
T. VALIDA Loew. Common, July 16-Aug. 7.
T. VICINA Macq. S. W. Harbor; Eden, July 11-Aug. 11.

DICTYOMYIA Cresson

- D. AMBIGUA Loew. Great Heath, Aug. 17.

EUTHYCERA Latreille

- E. BOREALIS Cress. Station F130, A scarce form.

ELGIVA Meigen

- E. LINEATA Fall. Salisbury Cove, July 8-24 (Sanford). Common in meadow south of the town, Aug. 7-11.

TRYPETOPTERA Hendel

- T. CANADENSIS Macq. (*T. pallida* Loew). Eagle Lake, July 18.

LIMNIA Desvoidy

- L. BOSCH var. SPARSA Loew. Common, June 13-July 30.
L. BOSCH Desv. Common, July 17-Aug. 11.
L. COSTALIS Loew. Eagle Lake, July 18.
L. SARATOGENSIS Fitch. Common, June 15-Sept. 13.

CHYROMYIDAE

This small family is said to frequent the sea coast.

CHYROMYA Desvoidy

- C. FLAVA Linn. "Mt. Desert," July 28 (McAtee).

PSILIDAE

The larvae live in the roots of plants and the adults are found in moist shady places.

LOXOCERA Meigen

- L. COLLARIS Loew. Flying Mt.; Echo Lake, Aug. 26-29 (Alexander).
L. CYLINDRICA var. PLEURITICA Loew. Echo Lake; Long Pond; Witch Hole Pond, June 17-July 30.

PSEUDOPSILA Johnson

- P. COLLARIS Loew. Upper Hadlock Pond; Bar Harbor, June 11-Sept. 11.
P. FALLAX Loew. Bar Harbor; Long Pond; S. W. Harbor, Aug. 16-22.
P. PERPOLITA Johns. Duck Brook; Sand Beach near Great Head, Sept. 11-13.
P. n.sp. or an aber. of FALLAX Lw. Sweeping sweet fern, Sept. 6.

PSILA Meigen

- P. BICOLOR Meig. Bar Harbor; S. W. Harbor, July 17-22.
P. LEVIS Loew. Bar Harbor; S. W. Harbor, June 11-21.
P. LONGULA Johns. Echo Lake; Bar Harbor; Green Mt., July 17-25. Material from Mt. Desert used in naming species. See B.S.N.H. Vol. 5, p. 11-17, 1921.

CHYLIZA Fallén

- C. NUBECTULA Johns. Material from Mt. Desert was used in naming this species. See B.S.N.H. Occasional papers, Vol. 5, p. 11-17, Nov. '21.

COELOPIDAE

In seaweed washed up on the shore is where these live. The only North American genus.

COELOPA Meigen

C. FRIGIDA var. PARVULA Hald. Flat Kelp-gly. Corfield at light, Oct. 8-20.

ORYGMA Meigen

O. LUCTUOSA Mg. Four individuals reared from seaweed from S. W. Harbor and said to be the only ones taken in this country. One in cabinets and rest in U.S.N.M. This is a common fly in Russia and was evidently first brought to the harbor in a vessel in the early shipping days.

HELOMYZIDAE

The larvae are scavengers and live in decaying vegetable matter. Adults may be trapped in moist places with vegetable bait.

ALLOPHYLIA Loew

A. LAEVIS Loew. Common, June 11-Sept. 7.

SUILLIA R.-Desvoidy (*Helomyza* auct.)

S. APICALIS Loew. S. W. Harbor; Long Pond; Echo Lake, July 15-Sept. 7.

S. LONGIPENNIS Loew. Echo Lake, July 17.

S. MIKH Pok. Lower Breakneck, Aug. 20. Station 220 and F230.

S. PLUMATA Loew. Bar Harbor, July 20.

OECOTHEA Haliday

O. FENESTRALIS Fall. Laboratory, Oct. 8.

SCOLIOCENTRA Loew

S. FRATERNA Loew. Penikese, July 17.

S. HELVOLA Loew. Echo Lake; N. E. Harbor; Bar Harbor, July 12-Sept. 11.

S. TINCTA Walker. One specimen in laboratory, July 26.

AMOEBALEA Garrett

A. HELVOLA Loew. Found in shady damp places where there is decay.

TEPHROCHLAMYS Loew

T. CANESCENS Meig. Bar Harbor; N. E. Harbor, June 14–Aug. 20.

NEOLERIA Malloch

N. DISCOLOR Loew. Bar Harbor, June 21–23.

N. LEUCOSTOMA Loew. Bar Harbor; Echo Lake, June 21–Sept. 11.

DRYOMYZIDAE

The larvae being aquatic indicates that swampy places that have some shade would be where to collect adults.

DRYOMYZA Fallén

D. DAYI Cress. Echo Lake, July 12.

D. FERRUGINEA Mel. Bar Harbor, June 13.

NEUROCTENA Rondani

N. ANILIS Fall. Common, July 10–25.

N. SIMPLEX Loew. Common, July 12–30.

MUSCIDAE

The collecting in this family is not particularly pleasant because it leads one into handling more or less filth. The larvae almost without exception breed in decaying matter of all kinds.

EUGENACEPHALA Johnson

E. RUFICEPS Johns. Corfield, Aug. 1.

E. SALSA Johns. Laboratory, Aug. 1–19.

SCOPEUMA Latreille

S. FURCATA Say. Bar Harbor; N. E. Harbor (Minot), June 8–July 16; mating pair, Oct. 30 (Br.).

S. LITOREA Fall. Narrows, July 27–Sept. 12.

- S. LUTARIA Fall. Green Mt., July 25.
S. MERDARIA Fab. S. W. Harbor, July 18.
S. NIGRIPES Holmgren. Station F339.
S. STERCORARIA Linn. Common, June 20–July 26.
S. SUILLA Fab. Bar Harbor; Echo Lake; Green Mt., June 8–July 25.

HYDROMYZA Fallén

- H. CONFLUENS Loew. Bar Harbor, July 24. On lily pads.

CORDILURA Fallén

- C. ALBERTA Curr. Come into lab., but not common.
C. CARBONARIA Walk. Echo Lake, June 17.
C. FASCIVENTRIS Curr. Duck Brook; Bar Harbor; Salisbury Cove, June 13–July 6.
C. NANA Loew. Common, June 26–July 24.
C. PRAEUSTA Loew. Station F420.
C. SETOSA Loew. Echo Lake, June 17–July 17.
C. VARIABILIS Loew. Upper Hadlock Pond; Seal Cove, June 17–20.

CORDYLURELLA Malloch

- C. NEBULOSA Coq. Laboratory, July 26.

CERATINOSTOMA Mead

- C. OSTIORUM Halid. Common, June 9–July 27.

TRICHOPALPUS Rondani

- T. PALPALIS Coq. Narrows; Salisbury Cove; Newport Cove, July 11–29.
T. PUNCTIPES Meig. Salisbury Cove; Newport Cove, July 11–15.

ACHAETELLA Malloch

- A. VARIPES Walk. Salisbury Cove; Bar Harbor, July 15–Aug. 9.

PARALLELOMMA Becker

- P. DIMIDIATA Cress. Bar Harbor, June 7.
P. PLEURITICA Loew. Upper Hadlock Pond; Bar Harbor,
June 10-13.
P. GRACILIPES Loew. Bar Harbor, July 10.
P. MUNDA Loew. Station F418.

AMERICINA Malloch

- A. ADUSTA Loew. Bar Harbor, July 29.
A. INERMIS Loew. Bar Harbor, July 25.

ORTHACHETA Becker (*Orthochacta* auct.)

- O. CORNUTA Loew. Duck Brook, June 13.

AMAUROSOMA Becker

- A. BRUNNEICOSTA Johns. Echo Lake, June 27.

FUCELLIA R.-Desvoidy

- F. MARITIMA Halid. Kelp fly. Common, June 20-July 15.

ANTHOMYIA Meigen

- A. PLUVIALIS Linn. Common, June 21-July 17.

EUSTALOMYIA Kowarz

- E. BRIXIA Walk. N. E. Harbor, July 16 (Minot).

HYDROPHORIA Desvoidy

- H. PROXIMA Mall. Witch Hole Pond; Salisbury Cove, June
13-July 18.
H. DIVISA Meig. Salisbury Cove, July 14.
H. UNIFORMIS Mall. Salisbury Cove, Aug. 11.
H. AMBIGUA Fall. Bar Harbor; Echo Lake, June 14-July 20.

PROBOSCIMYIA Bigot

- P. SIPHONINA Bigot. Bar Harbor, May 25.

PEGOMYA Desvoidy

- P. AFFINIS Stein. (*P. vicina* St., not Lint.). N. E. Harbor, Sept. 24 (Minot).
- P. BICOLOR Wied. Common, June 21–July 20.
- P. CALYPTRATA Zett. Echo Lake, June 17.
- P. CONNEXA Stein. (*P. emmesia* Mall.). Echo Lake; Long Pond, June 17–Aug. 26.
- P. DISSECTA Meig. Salisbury Cove, July 24.
- P. FRINGILLA Mall. Laboratory, Aug. 1. Station 209.
- P. FUSCOFASCIATA Mall. Bar Harbor; Echo Lake, June 13–Sept. 7.
- P. GENICULATA Bouché. Bar Harbor; Echo Lake, June 7–July 12.
- P. HYOSCYAMI Panz. (*P. vicina* Lint). Common, June 7–July 3. The larva mines the leaves of beets and dock.
- P. JUVENILIS Stein. Eagle Lake; Witch Hole Pond, July 18–30.
- P. LIPSIA (Wlk.). These flies come into the lab. in Oct. They frequently carry *Hesperochnes tamiae* Beier attached to their legs. I have seen one fly with two and one with three attached. It is the first record for New England for these *Pseudoscorpiones*.
- P. LITTORALIS Mall. Long Pond; Bar Harbor; Green Mt., July 16–24.
- P. LUTEOLA Mall. Echo Lake; Bar Harbor, July 12–Sept. 7.
- P. RUBIVORA Coq. Station F173.
- P. VITTIGERA Zett. Common, July 17–30.
- P. WINTHEMI Meig. Bar Harbor; S. W. Harbor, July 30–Sept. 8.
- P. NIGRITARSUS Zett. Bred from *Chenopodium*, June 3–6 (Br.).

HAMMOMYA Rondani

- H. MARYLANDICA Mall. S. W. Harbor; Echo Lake, June 16–17.

EGLE Desvoidy

- E. MUSCARIA Fab. Station F241.

PAREGLE Schnabl and Dziedzicki

- P. AESTIVA Meig. S. W. Harbor, July 11.
P. CINERELLA Fall. Echo Lake; Salisbury Cove, July 12-25.
P. LATIPENNIS Zett. Station F405.
P. RADICUM Linn. Salisbury Cove, July 24.

PYCNOGLOSSA Coquillet

- P. FLAVIPENNIS Fall. Laboratory, Aug. 18.

PROSALPIA Pokorný

- P. ANGUSTITARSIS Mall. Common, July 12-25.
P. SILVESTRIIS Fall. S. W. Harbor; Bar Harbor, July 16-21.

EREMOMYIA Stein

- E. VERNALIS Huck. Station F245. Scarce.

HYLEMYA Desvoidy

- H. ALCATHOE Walk. Bar Harbor; S. W. Harbor, June 13-21.
H. ANTIQUA Meig. "Onion maggot." Echo Lake, June 17.
H. BRASSICAE Bouché. "Cabbage maggot." S. W. Harbor, July 13. Bred from cauliflower, July 18 (Br.).
H. CILICRURA Rond. (*fusiciceps* auct.). Common, June 7-Aug. 14.
H. COENOSIAEFORMIS Stein. Common, June 17-Aug. 18.
H. DEPRESSA Stein. S. W. Harbor; Salisbury Cove, June 16-July 24.
H. FUGAX Meigen. Section 22, Aug. 6.
H. GENICULATA Bouché. Station F418.
H. INNOCUA Mall. Echo Lake; Eagle Lake; Bar Harbor, July 12-Aug. 16.
H. INORNATA Stein. Common, June 18-July 10.
H. LAEVIS Stein. Bar Harbor, Aug. 10.
H. LASCIVIA Zett. Station F420.
H. LATIPENNIS Zett. Common, June 10-July 27.
H. MEGACEPHALA Mall. Bar Harbor (Br.), Apr. 25.
H. PLUVIALIS Mall. S. W. Harbor, July 13.

- H. SPIZELLAE Huck. Corfield at melon bait, June 22.
H. TRICHODACTYLA Rond. S. W. Harbor; Bar Harbor, July 11-19.
H. TRIVITTATA Stein. (*H. longicauda* Mall.). Common, July 15-29.
H. sp. Around Breakneck beating catkins, Apr. 25, F300.

MUSCA Linnaeus

- M. DOMESTICA Linn. House fly. Not common, July 10-Sept. 22. This is the fly that gets the blame for man's unsanitary habits.

ORTHELLIA Desvoidy

- O. CAESARION Meig. S. W. Harbor; Eden; Narrows, July 23-Sept. 12.

PYRELLIA Desvoidy

- P. SERENA Meig. Salisbury Cove, July 15. Station F414.

MORELLIA Desvoidy

- M. MICANS Macq. Common, June 9-Aug. 25.

LISPE Latreille

- L. ALBITARSIS Stein. Common, June 13-Sept. 13.
L. JOHNSONI Aldr. Newport Cove; Great Head, Sept. 13.
L. SOCIABILIS Loew. Witch Hole Pond, June 13.
L. TENTACULATA De G. Witch Hole Pond; S. W. Harbor; Newport Cove, June 13-Sept. 13.
L. ULIGINOSA Fall. Bar Harbor, June 13-Aug. 29.
L. sp. From swallow's nest (Br.), June 1, '38.

MESEMBRINA Meigen

- M. LATREILLEI Desv. On lab window, Sept. 22.

HOPLOGASTER Rondani

- H. NIGRITARSIS Stein. Common, July 18-30.

SCHOENOMYZA Haliday

- S. CHRYSOSTOMA Loew. Common, June 8–Aug. 13.
S. DORSALIS Loew. S. W. Harbor, June 16.
S. LITORELLA Fall. Salisbury Cove; Bar Harbor, July 12–
Sept. 13.

MACROCOENOSIA Malloch

- M. TRIESTA Stein. Common, June 7–July 30.

COENOSIA Meigen

- C. HUMILIS Meig. Bar Harbor; N. E. Harbor, June 21–
Sept. 4.
C. TIGRINA Fab. Laboratory, July 10.

LIMOSIA Desvoidy

- L. ATRATA Walk. S. W. Harbor, Aug. 23. Station F399.
L. COMPRESSA Stein. Bar Harbor; Eagle Lake, July 18–20.
Station F340, Station F405.
L. FUSCIFRONS Mall. Bar Harbor, Aug. 10–29.
L. HUMILIS Meig. Bar Harbor; N. E. Harbor, June 21–
Sept. 4.
L. NIGRESCENS Stein. S. W. Harbor; Tremont; Echo Lake;
June 20–Oct. 3.
L. NUDISETA Loew. Bar Harbor, Sept. 11.

LISPOCEPHALA Pokorný

- L. ALMA Meig. S. W. Harbor, Sept. 6.
L. ALMA var. PALLIPALPIS Zett. Echo Lake; Eagle Lake, July
12–18.
L. ERYTHROCERA Desv. Common, July 12–Aug. 23.

MACRORCHIS Rondani

- M. AUSOBA Walk. Bar Harbor, July 3.

TETRAMERINX Berg

- T. UNICA Stein. Narrows, Aug. 13.

DIALYTA Meigen

D. FLAVITIBIA Johan. Salisbury Cove; Hadlock Pond; S. W. Harbor, June 10–July 20.

LIMNOSPILA Schnabl

L. ALBIFRONS Zett. Salisbury Cove; Narrows; S. W. Harbor, July 25–Aug. 23.

AZELIA R.-Desvoidy

A. CILIPES Zett. Bar Harbor, Aug. 15.

FANNIA R.-Desvoidy

F. CANICULARIS Linn. Little house fly. Common, June 20–Sept. 22.

F. CARBONARIA Meig. Common, June 17–Sept. 5.

F. DEPRESSA Stein. S. W. Harbor, Aug. 22.

F. FLAVIBASIS Stein. Duck Brook, July 30.

F. FUSCULA Fall. Echo Lake; Bar Harbor, July 12–22.

F. INCISURATA Zett. Bar Harbor; Salisbury Cove, July 19–24.

F. KOWARZII Verr. Jordan Pond; S. W. Harbor, June 10–18.

F. MINUTIPALPIS Stein. S. W. Harbor; Long Pond; Bar Harbor, June 16–Sept. 9.

F. SCALARIS Zett. S. W. Harbor; Salisbury Cove, June 20–July 19.

F. SERENA Fall. Echo Lake; S. W. Harbor; Eagle Lake, July 12–30.

F. SOCIELLA Zett. S. W. Harbor, July 30–Aug. 21.

COELOMYIA Haliday

F. SUBPELLUCENS Zett. S. W. Harbor (Johnson) June 25.

LIMNOPHORA Desvoidy

L. AEREA Fall. S. W. Harbor, June 21.

L. ALTICOLA Mall. Bar Harbor, June 7.

L. CAROLI Mall. Duck Brook; Green Mt.; Echo Lake, June 13–July 17.

- L. CLIVICOLA* Mall. Echo Lake; S. W. Harbor, June 17-20.
L. FATIMA Huck. Sea Wall Bog F375. One specimen.
L. NARONA Walk. Highbrook Rd., sweeping, Sept. 5.
S. SUSPECTA Mall. Bar Harbor; Echo Lake, June 15-17.
S. TETRACHAETA Mall. Duck Brook; Bar Harbor, June 15-
July 30.

GRAPHOMYIA R.-Desvoidy

- G. MACULATA* Scop. Common, July 10-Sept. 7.

MYOSPILA Rondani

- M. ASSIMILIS* Fallen. Reared Mch. 38 (Br.). A nuisance in
the house.
M. MEDITABUNDA Fab. Eagle Lake, July 19.

MYDAEA R.-Desvoidy

- M. DISCIMANA* Mall. Common, June 13-July 15.
M. HIRTIVENTRIS Mall. Echo Lake; S. W. Harbor; Bar Har-
bor, July 12-Aug. 16.
M. NEGLECTA Mall. Hunters Beach Br.; Laboratory, June
19-Aug. 8.
M. OCCIDENTALIS Mall. Bar Harbor; N. E. Harbor, June 7-
Aug. 15.
M. PAGANA Fab. Bar Harbor, June 7.
M. URBANA Meig. Bar Harbor; N. E. Harbor, July 17-22.
M. WINNEMANA Mall. Corfield at melon bait, July 22.

LASIOPS Meigen

- L. INNOCUUS* Zett. Echo Lake; S. W. Harbor, June 17-
July 11.
L. LATIPENNIS Mall. S. W. Harbor, June 21, 1921.
L. MACULIVENTRIS Mall. Laboratory, Oct. 10.
L. SPINIGER Stein. Echo Lake; S. W. Harbor, June 17-
Aug. 23.
L. SEMICINEREUS Wied. One specimen on lab. window,
Aug. 21.

ALLOEOSTYLUS Schnabl

A. DIAPHANUS Wied. Common, June 15–Aug. 21.

MUSCINA Desvoidy

M. ASSIMILIS Fall. Record of capture lost.

M. STABULANS Fall. Large numbers reared from *Malacosoma americana* caterpillars, July 4, '34.

BIGOTOMYIA Malloch

B. HOUGHII Stein. Echo Lake; Bar Harbor, July 17–Aug. 17.

DENDROPHAONIA Malloch

D. HILARIFORMIS Stein. One specimen at Witches Hole, Aug. 27.

PLATYCOENOSIA Strobl

P. MIKI Strobl. Bar Harbor, July 20.

OPHYRA Desvoidy

O. LEUCOSTOMA Wied. Common, June 22–Aug. 22.

HELINA Desvoidy

H. BREVIS Stein. S. W. Harbor, July 13.

H. JOHNSONI Mall. S. W. Harbor, June 8.

H. LUCORUM Fall. Common, June 8–Aug. 21.

H. MARMORATA Zett. Common, June 16–July 27.

H. MULTISETOSA Schnabl. Bar Harbor; Long Pond, Sept. 4–7.

H. NEOPOECILOPTERA Mall. Laboratory, May 16–June 6.

H. NIGRICANS Stein. Bar Harbor, June 21.

H. PECTINATA Johan (*H. mimetica* Mall.). Common, June 7–July 22.

H. TROENE Walk. New Mill Meadow, Oct. 3.

PHAONIA Desvoidy

P. APICATA Johan. Common, July 12–Aug. 21.

P. BYSIA Walk. Common, June 21–July 19.

- P. CAYUGAE* Johan. (*P. nigricans* Johan, not Stein.). Bar Harbor; N. E. Harbor, July 14–Aug. 23.
P. CURVIPES Stein. Eagle Lake; Long Pond, July 18–Aug. 21.
P. ERRANS Meig. Bar Harbor, July 26.
P. ERRANS var. *COMPLETA* Mall. N. E. Harbor, June 26; Bar Harbor, Sept. 10.
P. FUSCA Stein. S. W. Harbor, Sept. 6.
P. RUFIBASIS Mall. Salisbury Cove, Aug. 6.
P. SERVA Meig. Common, June 11–Sept. 10.
P. SOLITARIA Stein. Station F220.

PARARICIA Brauer and Bergenstamm

- P. PASCUORUM* Meig. Corfield hovering over lawn, Aug. 20.
 Penikese in house, Oct. 2.

HYDROTAEA R.-Desvoidy

- H. ARMIPES* Fall. Salisbury Cove, July 24.
H. CRISTATA Mall. Salisbury Cove, July 24.
H. HOUGHII Mall. Bar Harbor, Sept. 9.
H. MILITARIS Meig. Common, June 17–Aug. 20.

HERBECNEMA Schnabl

- H. AFFINIS* Mall. Bar Harbor; Echo Lake, June 7–17.
H. UMBRATICA Meig. Station F235.

PHYLLOGASTER Stein

- P. CORDYLUROIDES* Stein. Salisbury Cove; Narrows, July 24–27.

POGONOMYA Rondani

- P. FLAVIPENNIS* Fall. Witch Hole Pond; S. W. Harbor, June 13–July 30.
P. FLAVINERVIS Mall. S. W. Harbor, June 22–24.
P. PROBOSCIDALIS Mall. Echo Lake, July 12.

STOMOXYS Geoffroy

- S. CALCITRANS* Linn. Biting house-fly. Bar Harbor; Salisbury Cove, July 31–Aug. 10.

HAEMATOBIA St. Fargeau and Serville

H. IRRITANS Linn. Horn fly. Bar Harbor; Salisbury Cove,
July 25-30.

METOPHIDAE. The Flesh Flies

METOPIA Meigen

M. LEUCOCEPHALA Rossi. Long Pond; S. W. Harbor, July 16-
Aug. 22.

M. CAMPESTRIS Fall. N. E. Harbor; Long Pond, July 17-
Aug. 21.

M. SIGNIFERA Meig. Laboratory, July 18.

BRACHYCOMA Rondani

B. SACROPHAGINA Town. S. W. Harbor; Eagle Lake, June 21-
July 18. Parasitic on the larvae in the nests of bumble bees.

GYMNOPROSOPA Townsend

G. POLITA Town. One taken, record of capture lost.

PACHYOPHTHALMUS Brauer and Bergenstamm

P. SIGNATUS Meig. Common, July 11-Aug. 13.

WOHLFAHRTIA Brauer and Bergenstamm

W. VIGIL Walk. Salisbury Cove, July 24.

SENOTAINIA Macquart

S. TRILINEATA V.d.Wulp. Salisbury Cove; Sargent Mt., July
24-Aug. 8.

AMOBIA Desvoidy

A. SIGNATA Meig. Sargent Drive, Aug. 5.

CYNOMYA Desvoidy

C. CADAVERINA Desv. S. W. Harbor; Bar Harbor, June 22-
July 15.

CALLIPHORA Desvoidy. Blue-bottle flies

C. VOMITORIA Linn. Jordan Pond; Newport Cove, June 10-
July 11.

C. VOMITORIA var. *NIGRIBARBIS* Shan. Common, July 11–Sept. 22.

C. ERYTHROCEPHALA Meig. Bar Harbor; Salisbury Cove, July 20–Sept. 9.

PIHORMIA R.-Desvoidy

P. REGINA Meig. Common, July 15–Sept. 11.

P. TERRAENOVAE Desv. Bar Harbor; Salisbury Cove, July 22–Aug. 5.

PROTOCALLIPHORA Hough

P. SPLENDIDA form *SIALIA* Shan. & Dobro. S. W. Harbor, June 26. The larva is parasitic on nestling birds.

LUCILIA Desvoidy. Green-bottle flies

L. ILLUSTRIS Meig. Several taken at Section 22, Aug. 6; Section 26 on *Spiraea*, July 5, and Somesville, Sept. 15.

L. SYLVARUM Meig. Bar Harbor, July 29–Aug. 15.

POLLENIA R.-Desvoidy. Cluster fly

P. RUDIS Fab. Common, June 17–Sept. 6.

P. VARIA Meig. Stations F218 and F283.

P. sp. A specimen with the apical cell petiolate. Penikese, June 19.

P. sp. On catkins, Apr. 25; Breakneck Dr., June 2.

P. sp. Toad Hole, Aug. 26.

OPSODEXIA Townsend

O. BICOLOR Coq. Witches Hole Pd., Sept. 11.

HELICOBIA Coquillett

H. HELICIS Town. S. W. Harbor, Sept. 8.

H. RAPAX Walt. Penikese on flowers, July 27.

AGRIA R.-Desvoidy

A. AFFINIS Fall. Echo Lake, July 12.

SARCOPHAGA Meigen

- S. ATLANTIS Aldr. Salisbury Cove, July 18.
 S. BISETOSA Park. S. W. Harbor; N. E. Harbor; Salisbury Cove, July 10–Aug. 9.
 S. CIMBICIS Town. S. W. Harbor; N. E. Harbor; Bar Harbor, June 21–July 19.
 S. (RAVINIA) COMMUNIS Park. Salisbury Cove, June 9.
 S. FLETCHERI Aldr. Salisbury Cove, July 18.
 S. LATISTERNA Park. S. W. Harbor, Aug. 20–23.
 S. HERMINIERI Desv. Echo Lake; S. W. Harbor, June 17–Sept. 6.
 S. SCOPARIA Pandell. Station F31. Laboratory, Sept. 30.
 S. SCOPARIA var. NEARCTICA Par. S. W. Harbor; Echo Lake; Witch Hole Pond, June 21–Sept. 8.
 S. SINUATA Meig. Bar Harbor; Salisbury Cove; S. W. Harbor, June 14–Sept.
 S. sp. Corfield, Aug. 10.

OESTRIDAE. The Bot Flies

CEPHENOMYIA Latreille

Also spelled CEPHALEMYYIA, CEPHALOMYYIA, CEPHENOMYYIA, CEPHALONOMYYIA and CEPHALONOMIA by various authors.

- C. sp. One of several pupal cases taken from the sinuses of a deer in May, '44. The fly has never been seen here either by Dr. Brower or the author, although most carefully sought. The flies must be numerous.

TACHINIDAE

The Tachinids are, insofar as known, all parasitic on other insects, and besides being most beneficial in keeping the insect life in balance, are among the most interesting to collect and study. While, of course, the usual methods of sweeping, etc. are used in this family, I particularly recommend rearing, for in that way one gets perfect specimens and complete records.

HYSTRICIA Macquart

- B. ABRUPTA Wied. Bar Harbor; N. E. Harbor; S. W. Harbor,
July 24–Sept. 6.

CYLINDROMYIA Meigen

- C. DOSIADES (Walk.). Bar Harbor; Eden, July 22–Sept.
C. INTERRUPTA Meig. (*O. dosiades* Walk.). Bar Harbor; Salis-
bury Cove, July 22–Sept. 11.

ARGENTOEPALPUS Townsend

- E. SIGNIFERUS Walk. Bar Harbor; Echo Lake, June 9–July
19.

EUTRICHOGENA Townsend

- E. SETIPENNIS Coq. S. W. Harbor; N. E. Harbor (Minot),
July 15–26.

ARCHYTAS Jaennicke

- A. ANALIS Fab. Bar Harbor; S. W. Harbor, July 15–Sept. 6.
A. ATERRIMA Desv. Bar Harbor; Echo Lake; S. W. Harbor,
July 17–Sept. 6.
A. CALIFORNICA Wlk. Section 14 on *Solidago*, Aug. 11; New
Mill Pd., Aug. 29; Stations F260 and F308.

PARARCHYTAS Desvoidy

- J. DECISA Walk. Echo Lake; S. W. Harbor; Bar Harbor,
July 12–Sept. 11.

RHACHOGASTER Townsend

- R. ALGENS Wied. Common, July 10–Sept. 7.
R. DAKOTENSIS var. ORIENTALIS Town. S. W. Harbor, June 20–
Sept. 6.
R. HISPIDA Toth. Record of capture lost.
R. MONTANA Town. S. W. Harbor, June 20–July 15.
R. PICEIFRONS Town. Station F150.

ARCTOPHYTO Townsend

- A. n.sp. Reared from larch, June 22, '43.

CYRTOPHLOEBA Rondani

C. HORRIDA Coq. S. W. Harbor; N. E. Harbor, June 21–Aug. 11.

GYMNOPHANIA Brauer and Bergenstamm

G. MONTANA Coq. S. W. Harbor; Salisbury Cove, June 25–July 14.

EULASIONA Townsend

E. COMSTOCKII Town. Penikese beating, May 12–June 20.

LYDINA Desvoidy

L. AREOS Walk. Salisbury Cove; Narrows; S. W. Harbor, June 9–Sept. 6.

MYIOPHASIA Brauer and Bergenstamm

M. NIGRIFRONS Town. Narrows, Aug. 13.

LINNAEMYA Desvoidy

L. COMTA Fall. Bar Harbor, July 19–Aug. 10.

L. HAEMORRHOIDALIS Fall. (L. *picta* Meig.). Common July 11–Sept. 6.

MERICIA Desvoidy

M. AMPELUS Walk. Bar Harbor, June 23.

M. ARCUATA Toth. Bar Harbor, June 7–21.

M. NIGROPALPIS Toth. Long Pond, Aug. 21, F214.

M. PLATYCARINA Toth. N. E. Harbor (Minot): S. W. Harbor, Sept. 4–6.

RHAMPHININA Bigot

R. CONFUSA West. Station F215.

R. DUBIA West. Station F148.

R. HARPASA Walk. Common, June 7–Aug. 14. The larva is parasitic on white grubs, the larvae of the May beetles (*Phyllophaga*).

R. NEOTIBIALIS West. Station F261.

DINERA Desvoidy

D. FUTILIS West. S. W. Harbor; Long Pond; Salisbury Cove,
July 16-23.

APINOPS Coquillett

A. ATRA Coq. S. W. Harbor, Aug. 20.

GYMNOSOMA Meigen

G. DUBIA West. S. W. Harbor, July 19, 1923.

G. FULIGINOSA Desv. Common, June 7-Sept. 10. Ex. currant
fruit (Br.).

CISTOGASTER Latreille

C. DIVERSA Loew. Bubble Brook on blackberry blossoms,
June 15.

C. OCCIDUA Walk. Common, June 18-Aug. 16.

TRICHOCLYTIA Townsend

T. ATRATA Coq. N. E. Harbor, June 26 (Minot).

CHRYSERIA Desvoidy

C. FLAVA Town. Common, July 13-26.

ALOPHORA Desvoidy

P. AENEOVENTRIS Will. Common, June 25-Aug. 16.

P. PHASIOIDES Coq. Bar Harbor, June 15.

P. PULVEREA Coq. Salisbury Cove, July 23, 1925.

P. SPLENDIDA Coq. Salisbury Cove; N. E. Harbor, July 25-
Aug. 23.

VORIA Desvoidy

V. AMERICANA V. d. W. Bar Harbor; Narrows, June 21-
Aug. 11.

CRYPTOMEIGENIA Brauer and Bergenstamm

C. PRISCA Walk. Bar Harbor, June 11-27.

C. TRIANGULARIS Curr. Bald Mt. sweeping blueberry and wild
cherry blossoms, June 6. Asticou beside road, Aug. 5.

CLISTOMORPHA Townsend

- C. TRIANGULIFERA Loew. Common, June 11–Sept. 6. Mating pair laboratory, Aug. 14.

EUTRIXA Coquillett

- E. EXILE Coq. Salisbury Cove, Aug. 7, 1926. Parasitic on May beetles.

PHRYNOFRONTINA Townsend

- P. DISCALIS Coq. S. W. Harbor; Long Pond, Aug. 20–Sept. 6.

BLONDELIA Desvoidy

- B. ASSIMILIS Town. Common, July 17–24.
B. sp. S. W. Harbor, July. Bred from *Archips*.

TRITAXIS Macquart

- T. MEXICANA Wulp. Stations F260 and F279.

WINTHEMIA Desvoidy

- W. DATANAE Town. Bred from *Datana ministra*, Aug. 8 (Br.).
W. QUADRIPISTULATA Fab. Common, July 16–Aug. 17.
W. RUFOPICTA Bigot. Corfield flying close to ground, June 19. Sal. Cove Rd. beating oak, Sept. 17.
W. VESICULATA (Town.). St. Mary Park, Sept. 21.
W. SINUATA Reim. Sal. Cove road beating oak, Sept. 17.
W. sp. (nov.?) det. D. G. Hall. Ex *Shizura* sp. Aug. 17–20.

COMPSILURIA Bouhé

- C. CONCINNATA Meigen. Parasitic on Gypsy Moth (*Porthetria*), *Apatela*, and other lepidoptera. Bred June 20 (Br.). Long Pond, Aug. 21. Reared from Brown Tail cocoon, July 18.

DORYPHOROPHAGA Townsend

- D. ABERRANS Town. S. W. Harbor; Bar Harbor, Sept. 6–13. A parasite of the potato beetle.
D. DORYPHORAE Riley. S. W. Harbor, Sept. 6. Also parasitic on the potato beetle.

PHOROCERA Desvoidy

- P. COCCYX Aldr. & Webb.? Duck Brook, Sept. 11.
 P. HAMATA Aldr. & Web. Bar Harbor, June 12 (Br.).
 P. sp. Bred from pitch pine sawfly material, June 21 (Br.).

GYMNOCHAETA Desvoidy

- G. VIVIDA Will. Bar Harbor, June 21.

PSEUDEUANTHA Townsend

- P. PRISTIS Walk. Salisbury Cove; Eagle Lake, July 15-18.
 In U.S.N.M.

NEMORILLA Desvoidy

- N. MACULOSA Meig. (*pyste* Walk). Long Pond; Green Mt.;
 S. W. Harbor, July 15-Aug. 21.

ZENILLIA R.-Desvoidy

- Z. (PAREXORISTA) AFFINIS Fall. S. W. Harbor, June 16.
 Z. (EUSISYROPA) BLANDA O. S. Green Mt.; Penikese, July 6-
 Aug. 17. Bred from *Depressaria* infesting cow parsnip.
 Z. (PHRYXE) CAESAR Aldr. (*E. nigripalpis* Town.). Common.
 Aug. 13-Sept. 6.
 Z. (PAREXORISTA) CHELONIAE Rond. Penikese, July 12.
 Z. EUDRYAE Town. N. E. Harbor, July 13 (Minot).
 Z. (PAREXORISTA) CONFINIS Fall.
 Z. FUTILIS O. S. Station F268.
 Z. HELVINA Coq. S. W. Harbor; Penikese, Aug. 11-22.
 Z. VIRILIS. Green Mt., Aug. 17.
 Z. (PHRYXE) VULGARIS Fall. Penikese; Witch Hole Pond,
 July 23-Sept. 11.

GONIA Meigen

- G. BREVIPULVILLI Toth. Rhodora Meadow, May 26.
 G. (CNEPHLOGONIA) DISTINCTA Smith. Common, July 15-
 Aug. 22.
 G. FRONTOSA Say. Bar Harbor, June 11.

SPALLANZANIA Desvoidy

S. HESPERIDARUM Will. Salisbury Cove, July 24.

PELETERIA Desvoidy

P. ANAXIAS Walk. (*P. robusta* of authors). N. E. Harbor;
S. W. Harbor, Aug. 23–Sept. 6.

P. CONFUSA Curr. Echo Lake; S. W. Harbor; Bar Harbor,
July 12–Sept. 11.

P. ITERANS Walk. (*P. tessellata* of authors). S. W. Harbor,
Sept. 6.

MICROPHTHALMA Macquart

M. DISJUNCTA Wied. Witch Hole Pond, Sept. 11.

M. MICHIGANENSIS Town. Salisbury Cove, Aug. 9.

BLEPHARIGENA Rondani

B. SPINULOSA Bigot. Salisbury Cove, July 23.

LESCHENAULTIA Desvoidy

L. EXUL Town. Taken singly in various places, June.

L. JURINOIDES. Pars sphinx pupae, May 30. In U.S.N.M.

PHYLLOMYIA Townsend

P. ASSIMILIS Town. This is *Hypostena floridensis* of authors
not Townsend. Station F341.

P. COLUMBIA Curran. Pars. *Ancylis comptana*, June 10 (Br.).

P. POLITA Coq. Long Pond, July 16.

EUBRACHYMERIA Townsend

E. DEBILIS Town. S. W. Harbor, July 15–20.

SPATHIMEIGENIA Townsend

S. AURIFRONS Curr. Bred from *Neodiprion pini-rigidac*, July
7 (Br.).

S. SPINIGERA Town. Bred from lepidoptera larva, July 30.

WAGNERIA Desvoidy

W. SEQUAX Will. Salisbury Cove, June 9. Beating oak, Sept. 17.

W. HELYMUS Walk. Beating spruce at Sea Wall, Sept. 22.

STURMIA Desvoidy

S. ALBIFRONS Coq. Salisbury Cove, July 19.

S. INCOMPTA v. d. W. Bred from *Sphingidae* pupae, July 13 (Br.).

S. SCUTELLATA DESV. Mating pair Hunter Brook, June 9.

SCHIZOTACHINA Walker

S. CONVECTA Walk. Salisbury Cove, Aug. 9, 1926.

S. LONGICORNIS Coq. Section 28, July 20.

ACHAETONEURA Brauer and Bergenstamm

A. ALETIAE Riley. Green Mt., July 25.

A. FRENCHI Will. Bred from *Malacosmoa americana* caterpillars. Pupated June 19 and hatched July 22. Scarce.

A. SAMIAE Webber. In '37 and '38 (Br.) reared *ex Samia cecropia*.

A. SCHIZURAE Town. Lives on hill hovering in the woods, Aug. 3.

A. TENTHREDINIDARUM. Parasitizing *Lygaeonematis ericksonii*, Aug. 8, '27, Salnan.

EXORISTA Meigen

E. MELLA Walk. Laboratory, June 22–Sept. 3.

E. SIMULANS Meig. (*Tachina rustica* of authors). Common, July 11–Aug. 23. Station F136. Parasitic on *Macrephytus intermedius*.

CHAETOPHILEPS Coquillett

C. SETOSA Coq. S. W. Harbor, Sept. 3.

ANACHAETOPSIS Brauer and Bergenstamm

- A. TORTRICIS (Coq.) det. D. G. Hall, 1938. Reared Bar Harbor, June 10, 1936. Ex. *Ancylis floridana* (Br.).

CELATORIA Coquillett

- C. DIABROTICA Shimer. Salisbury Cove, July 14.
C. SPINOSA Coq. Bar Harbor; S. W. Harbor, July 30–Sept. 6.

ELODIA Desvoidy

- E. BARBATA Coquillett (*Methypostena*). June 11 (Br.).
E. LUCTUOSA Mg. See Aldrich Proc. Ent. Soc. Wash., vol. 30, p. 42, 1928. Eden, July 18.

BESSA Desvoidy

- B. TENTHREDINIDARUM Townl. Eden; S. W. Harbor, July 10–Sept. 6. Parasitizing *Lygaeonematis ericksonii*, Aug. 8, '27, Salman.

PHYTOMYPTERA Rondani

- P. LEUCOPTERA Johns. S. W. Harbor, July 26–29, bred from the cherry "ugly-nest" moth (*Archips cerasivorana*). Bar Harbor, Aug. 6, bred from the "oak ugly-nest" moth (*Archips ferradona*).

ACTIA Desvoidy

- A. AMERICANA Townl. N. E. Harbor, June 26–July 16 (Minot).
A. PALLORIS Coq. N. E. Harbor, July 6 (Minot).
A. PILIPENNIS Fall. Common, June 9–Sept 6.

PSALIDOPTERYX Townsend

- P. PSILOCORSIPHAGA n.sp. Bar Harbor, July, '34. See Can. Ent. Vol. LXXIV, No. 8.
P. SLOSSONI Coq. det D. G. Hall, 1938. Bar Harbor, July 17, 1934, no. 145, leaf tier, white birch.

EPIGRIMYIA Townsend

E. FLORIDENSIS Town. Long Pond; Green Mt.; Bar Harbor,
June 16–Aug. 17.

LISPIDEA Coquillett

L. sp. pars. *Recurvaria thujella* in U.S.N.M.

PLECTOPS Coquillett

P. USITATA Coq. Gt. Heath (Br.) on terminal webbed leaves
of willow. This is an unusual species which is apparently
quite rare and valuable. In U.S.N.M.

P. MELISSIPODA Coq. Laboratory, July 15.

DEXODES Brauer and Bergenstamm (*Nothelairia*)

N. AURIFRONS Coq. Bred from willow sawfly material, July
19 (Br.).

N. CHAETONEURA Coq. Same as above, Aug. 10.

OCHROCERA Townsend

O. VAGINALIS Town. Bar Harbor, Aug. 10.

SPATHIDEXIA Townsend

S. CLEMONSI Town. Eden, July 13.

S. DUNNINGI Say. Sweeping at the Tarn, May 23.

CLAUSICELLA Rondani

C. TARSALIS (Coq.). S. W. Harbor, Aug. 4. Scarce.

LIXOPHAGA Townsend

L. VARIABILIS Coq. Common, June 20–Sept. 13.

L. gen. sp. near Bar Harbor, June 8, '36. Reared (Br.) ex
sawfly.

LYDELLA Desvoidy

L. ASSIMILIS Town. Common, July 15–Aug. 15.

L. CELER Coq. Common, July 15–Aug. 15.

L. LATHAMI Curran. Mt. Desert, July. Scarce.

L. MYOIDEA Desv. One specimen at Witches Hole, Aug. 27.

LESKIOMIMA Brauer and Bergenstamm

L. n.sp. Sea Wall, Aug. 3, '43, one specimen.

THELAIRA Desvoidy

T. NIGRIPES Fab. Bar Harbor, June 23–Sept. 10.

GENEA Rondani

G. TEXENSIS Town. Bar Harbor, June 18.

PHYLLOPHILOPSIS Townsend

P. NITENS. Salisbury Cove, July 18.

PUPIPARA

HIPPOBOSCIDAE

ORNITHOICA Rondani

O. CONFLUENTA Say. One taken from sparrow and three from robin that flew into Laboratory, Aug. The most widely recorded species.

ORNITHOMYIA Latreille

O. FRINGILLINA Curtis (*O. pallida* Say). Bar Harbor, July (Moore). Frequents song and chipping sparrows, junco, robin, etc.

O. ANCHINEURA Speiser. On catbird, robin and many other birds.

ORNITHOPONUS Aldrich

O. AMERICANA Leach. Frequents great horned owl, red-shouldered hawk, ruffed grouse, etc. Widely distributed.

ORNITHOCTONA

O. STRIGILECULA Ferris. Rose-breasted grosbeak and others.

MELOPHAGUS

MELOPHAGUS Latreille

M. OVINUS Linn. The Sheep tick is on the few sheep here.

Order SIPHONAPTERA

SIPHONAPTERA. Fleas

The arrangement follows Ewing and Fox in U. S. D. A. Misc. Pub. 500, The Fleas of North America.

DOLICHOPSYLLIDAE

ORCHOPEAS Jordan

O. LEUCOPUS Baker. Bar Harbor, May 28, on white-footed mouse (Br.).

OPISODASYS Jordan

O. sp. Bar Harbor, Nov. 10, red squirrel.

O. ENOPLUS Roths.? On *Glaucomys sabrinus*, flying squirrel, Bar Harbor, Sept. 7 (Br.).

O. VESPERALIS Jordan? On *Glaucomys sabrinus*, flying squirrel, Bar Harbor, Nov. 10.

CERATOPHYLLUS Curtis

C. sp. Bar Harbor, May 14, on hermit thrush (Br.).

HYSTRICHOPSYLLIDAE

PEROMYSCOPSYLLA I. Fox

P. sp. Bar Harbor, Aug. 17, on red-backed mouse (Br.).

ISCHINOPSYLLIDAE

MYODOPSYLLA Jordan and Rothschild

M. INSIGNIS Roths.? Bar Harbor, Sept. 11, on a bat (Br.).

PULICIDAE

XENOPSYLLA Glinkiewicz

XENOPSYLLA? Bar Harbor, Oct. 13, on red squirrel.

CTENOCEPHALIDES Stiles and Collins

C. CANIS Curtis. Bar Harbor, Aug. 30 and Sept. 9, on dog.

C. FELIS Bouché. Bar Harbor, Aug. 19, on man (Br.).

Order HYMENOPTERA

ARGIDAE

ARGE Schrank (*Hylotoma* Latreille)

- A. CLAVICORNIS Fab. Common, July 17–Aug. 19. The larva feeds on willow.
- A. MACLEAYI Leach. Bar Harbor; Green Mt.; N. E. Harbor, June 13–Aug. 23. The larva feeds on wild cherry, birch, mountain ash, etc.
- A. PECTORALIS Leach. Echo Lake; Eden, June 27–July 13. The larva feeds on birch.
- A. SCAPULARIS Klug. Eden, July 15. The larva feeds on white birch and elm.
- A. sp. Eden, July 12.

STRICTIPHORA Billberg

- S. EBENA Nort. Jordan Pond, June 10.
- S. ZABRISKEI W. & M. Reared ex *Portulaca oleracea*. Aug. 16 (Br.).

DIPRONIDAE

MONOCTEMUS Dahlbom

- M. MELLICEPS Cresson? Bar Harbor, July (Br.), about *Juniperus communis*.

NEODIPRION Rohwer

- N. ABBOTH Leach. "Mt. Desert, Aug., 1872" (Cora H. Clarke). The larva feeds on white pine.
- N. ABIETIS Harr. N. E. Harbor, Aug. 11 (Minot). The larva feeds on spruce, fir and pine.
- N. PINUS-RIGIDA Nort. Reared from pitch pine, July.
- N. sp. About *Juniperus communis*, May 15 (Br.).
- N. sp. Bred from red spruce (*Pinus rubens*), Aug. 27 (Br.).
- N. BANKSIANAE Roh. Reared from *Pinus rigida*, Oct. 13, '38

DIPRION Schrank

- D. HERCYNIAE Htg. Bar Harbor, July 19–Aug. 8 (Br.).
 D. SIMILE Htg. Introduced Pine Sawfly. Reared from *Pinus strobus*, May 15–June 8 (Br.).

CRABRONIDAE

CRABRO Geoffroy (*Cimbex* Olivier)

- C. AMERICANUS Leach. American sawfly or "Willow worm." Bar Harbor; Corfield; Green Mt. summit; Eden, July 13–Aug. 15. The larva feeds on willow, poplar, elm, etc. The large white larva is conspicuous on willow.
 C. AMERICANUS var. ALBUS (Nort.). Seal Cove (Sanford); Salisbury Cove; Corfield, June 20–July 24.
 C. AMERICANUS var. LAPORTEI LePel. Eden, July 24.

TRICHIOSOMA Leach

- T. TRIANGULUM Kby. Newport Cove; Great Head; Corfield; Breakneck Road; Eden, June 16–July 23. The larva feeds on willow, cherry, alder, etc.
 T. CRASSUM Kby. Mt. Desert (Br.), June 22. One in U. S. N. M.

PAMPHILIDAE. Leaf-rolling sawflies

ACANTHOLYDA A. COSTA

- A. LUTEOPICTA Roh. Bar Harbor, July 19 (Minot).
 A. LYDA BRUNNICEPS Cress. Nurseries July 6 (Salman).
 A. OCHROCERA (Nort.). Bar Harbor (Dr. Thorndike).
 A. PINI Roh. Reared from white pine, Aug. 2 (Br.).
 A. PULLATA Cress. N. E. Harbor, Aug. 10 (Minot).

CEPHALCIA Panzer

- C. FASCIPENNIS Cress. Bar Harbor, June 6 (Br.).
 C. n.sp. Salisbury Cove, July 12.

PAMPHILIUS Latreille

- P. OCHREATUS Say. Bar Harbor, June 7 (Br.).
 P. PALLIMACULA Nort. S. W. Harbor, July 15.
 P. RUFOFASCIATUS Nort. Newport Cove; Great Head, July 11.

XIPHYDRIIDAE

XIPHYDRIA Latreille

X. TIBIALIS Say. Salisbury Cove, July 15 (Olsen).

SIRICIDAE. The Horn Tails

SIREX Linnaeus

S. JUVENCUS CYANEUS Fab. Bred from spruce at Corfield Sept. 9-17.

UROCERUS Geoffroy

U. ALBICORNIS (Fab.). West side of the Island in July. The larva bores in conifers and a good way to take the adults is to go where spruce is being cut for pulp. West side of Island June 15-July 30. Reared from larch June '43. Its parasite is *Rhyssa lineolata* (Kby.).

U. CRESSONI Nort. Penikese, July 8-Aug. 11. Scarce.

U. FLAVICORNIS Fab. Bar Harbor flying. Aug. 5. Reared from a mixed lot of hardwood Sept. 9.

XERIS Costa

X. SPECTRUM (Linn.). One specimen on cord wood at Eden, June 24, '37. Rare.

X. CAUDATA Cresson? Bar Harbor, July 28 (Br.).

TREMEX Jurine

T. COLUMBA (Linn.). On August 31, 1936, I found a partially dead maple tree in which dozens of this species were ovipositing as were *Megarhyssa atrata*, *M. nortoni*, and among them one *M. greeni*.

CEPHIDAE

JANUS Stephens

J. BIMACULATUS Nort. S. W. Harbor, July 10.

TENTHREDINIDAE. Typical sawflies

HEMITAXONUS Ashmead

H. ALBIDOPICTUS Nort. Echo Lake; Eagle Lake, June 17-July 18.

H. DUBITATUS Nort. Bar Harbor, June 15. The larva feeds on the sensitive fern (*Onoclea sensibilis*).

ANEUGMENUS Hartig

A. FLAVIPES Nort. Jordan Pond; S. W. Harbor, June 10–July 15. The larva feeds on brake (*Pteris aquilina*).

STRONGYLOGASTER Dahlbom

S. TACHITA Nort. Upper Hadlock Pond, June 10.

S. SORICULATIPES Cress. Bar Harbor (Br.), June 3.

DOLERUS Jurine

D. ALBIFRONS Nort. Seal Cove, June 20.

D. sp. S. W. Harbor, June 21.

CALIROA O. COSTA

C. CERASI Linn. Reared from pear (Br.) June.

METALLUS Forbes

M. RUBI Forbes. Reared from blackberry (Br.) Aug. 29.

FENUSA Leach

F. DOHRNI Tishb. Bar Harbor on alder Aug.

F. PUSILLUS Lep. Birch Leaf Miner (Br.) July 13–26.

TRICHOICAMPUS Hartig

T. GREGARIUS Dyar. Bar Harbor, June (Br.).

T. IRREGULARIS Dyar. Echo Lake, June 17–July 17.

HEMICHROA Stephens

H. AMERICANA Prov. Seal Cove, June 20 (Sanford).

H. AMELANCHIERIDIS Roh. Bar Harbor, June 12 (Br.).

PRISTIPHORA Latreille

P. BIVITTATA Nort. S. W. Harbor, July 13. The larva feeds on *Spiraea*.

- P. ERICKSONII* Hartig. Raised by Salman from larvae Aug. 24 and of which some were parasitized by (*Achaetoneura tenthredinidarum* Town). Bred from larch Aug.
- P. GENICULATA* Hartig. Abundant on mountain ash, June to August.
- P. MURTFELDTIAE* Marl. Echo Lake; S. W. Harbor, June 21–July 10.
- P. sp. near PALLICOXA* Roh. S. W. Harbor, July 29.
- P. PALLIPES* Lep. Bar Harbor (Br.) Aug. 23.

PACHYNEMATUS Konow

- P. COENIGER* Nort. Echo Lake; Seal Cove; Bar Harbor, June 20–Aug. 18.

PICKONEMA Ross

- P. ALASKENSIS* Roh. Bar Harbor on spruce, August.
- P. DIMMOCKII* Cress. Larvae on spruce.

PTERONIDEA Rohwer

- P. MENDICA* Walsh. S. W. Harbor, Sept. 5 (Alexander).
- P. ODORATA* Dyar. Bar Harbor (Br.) June 14.
- P. POPULI* Marlatt. Occurs on poplar.
- P. RIBESII* Scop. On currants, as name indicates, July 15.
- P. SIMILARIS* Nort. S. W. Harbor, June 11.
- P. TRICOLOR* Marlatt. Bar Harbor, July 27.

PONTANIA Costa

- P. sp.* S. W. Harbor, July 11.

EUURA Newman

- E. OVUM* Walsh. Willow Egg-gall. Echo Lake, July 12. The larvae form egg-shaped galls on the twigs of willow.
- E. PISUM* Walsh. S. W. Harbor, July 11. The larvae form subsphaerical galls on the under side of the leaves of willow.
- E. POMUM* Walsh. Willow apple gall. Bar Harbor; Salisbury Cove (Sanford). The larvae form galls on the leaves of willow.

CROESUS Leach

C. LATITARSUS Nort. Bar Harbor; Long Pond; Narrows,
June 15–Aug. 13. The larva feeds on birch.

EMPRIA Lepeletier

E. MULTICOLOR Nort. Echo Lake; Seal Cove; S. W. Harbor,
June 20–July 17. The larva feeds on white and yellow birch.
E. sp. Bar Harbor, June 13.

AMETASTEGIA A. Costa

A. EQUISETI Fallén. Bar Harbor (Br.) Aug. 25.
A. TENER Fallén. Jordan Pond, June 10.
A. GLABRA Fallén. S. W. Harbor, July 11. The larva feeds
on dock (*Rumex*).

ALLANTUS Panzer

A. BASALIS Klug. Salisbury Cove, July 25.
A. CINCTUS Linn. Reared from cultivated rose (Br.). June.

MACREMPHYTUS MacGillivray

M. INTERMEDIUS Dyar. Bar Harbor (Br.), June and July.

TAXONUS Hartig

T. APICALIS Say. Upper Hadlock Pond; Bar Harbor, S. W.
Harbor, June 10–July 15. The larva feeds on *Rubus*.
T. PALLICORNIS Nort. Bar Harbor, July 24.
T. TERMINALIS Say. Echo Lake; S. W. Harbor, June 22–
July 15.
T. UNICINCTUS Nort. Green Mt.; Bar Harbor; Echo Lake,
June 15–July 25.

DIMORPHOPTERYX Ashmead

D. MELANOGNATHUS Roh. Bar Harbor, Aug. 17.
D. ORONIS MacG. Salisbury Cove, July 25.
D. PINGUIS Nort. Salisbury Cove, July 14. The larva feeds
on birch, cherry, maple, etc.

BLENNOCAMPA Hartig

B. sp. Bar Harbor, July 24.

LAGIUM Konow

L. ATROVIOLACEUM Nort. Bar Harbor, Upper Hadlock Pond,
June 10.

AGLOSTIGMA Kirby

A. DELTA Prov. Bar Harbor, June 28 (Br.).

A. QUATUORDECIMPUNCTATUM Nort. Bar Harbor, June 8.

TENTHREDO Linnaeus

T. ANGULIFER Nort. Bar Harbor, June 9–July 21.

T. BASILARIS Say. Common, July 10–Sept. 7.

T. DUBIUS Nort. Bar Harbor, Aug. 9.

T. EXIMIUS Nort. Salisbury Cove, Aug. 9.

T. LEUCOSTOMA Kby. Bar Harbor; Echo Lake, S. W. Harbor,
June 9–July 20.

T. MELLICOXA Prov. Long Pond; Bar Harbor, July 16–18.

T. MELLINUS Nort. Bar Harbor; Salisbury Cove, July 17–27.

T. MUTANS Nort. S. W. Harbor, July 15–18.

T. RUFOPECTUS Nort. N. W. Harbor, July 1–8 (Minot).

T. SECUNDA MacG. S. W. Harbor; Echo Lake, July 13–17.

T. SEMIRUBER Nort. Bar Harbor; Green Mt.; Salisbury Cove,
June 9–Aug. 7.

T. SIGNATUS Nort. Bar Harbor; S. W. Harbor, June 9–22.

T. TRICOLOR Nort. S. W. Harbor, July 15.

T. VERTICALIS Say. S. W. Harbor; Echo Lake; Bar Harbor,
June 21–July 26.

T. XANTHUS Nort. Seal Cove, July 10.

PACHYPROTASIS Hartig

P. RAPAE Linn. Echo Lake, July 12.

MACROPHYA Dahlbom

- M. FASCIALIS Nort. S. W. Harbor; Long Pond, June 25–July 16. The larva feeds on elder.
- M. FLAVICOXAE Nort. Bar Harbor; S. W. Harbor, June 9–July 15.
- M. FORMOSA Klug? Bar Harbor, June 10 (Br.).
- M. INCERTA Nort. Jordan Pond; Echo Lake; S. W. Harbor, June 10–July 10.
- M. NIGRA Nort. Echo Lake, July 12.
- M. TRISYLLABA Nort. Common, June 11–July 18. The larva feeds on elder.
- M. VARIA Nort. Bar Harbor; Long Pond; S. W. Harbor, June 11–July 26.
- M. ZONALIS Nort. S. W. Harbor; Long Pond; N. E. Harbor, July 13–26.

BRACONIDAE

COELOIDES Wesmael

- C. sp. Seal Cove Brook, Sept. 8.
- C. sp. Hnlls Cove. Pars. scolitid ex *Pinus resinosa* Oct. (Br.).

ATANYCOLUS Förster

- A. sp. Bred from *Saperda concolor* gall, June 18 (Br.).

SPATHIUS Nees

- S. sp. Echo Lake; S. W. Harbor; Bar Harbor, June 15.

IPHIAULAX Förster

- I. AUGUSTUS Vier. S. W. Harbor, July 20.
- I. EURYGASTER Brulle. Bred from oak twig pruner, June 6 (Br.).

MICROBRACON Ashmead

- M. APICATUS Prov. Bar Harbor; Salisbury Cove; S. W. Harbor, July 18–30.
- M. GELECHIAE Ashm. Bar Harbor, Aug. 18. Parasitic on various species of *Gelechia* and other Microlepidoptera.

- M. LUTUS Prov. Bar Harbor, July 24.
 M. MELANASPIS Ashm. Pars. of *Coleophora salmani*. S. W. Harbor, July 13.
 M. MEROMYZAE Gahan. S. W. Harbor; Long Pond, July 13-16. Parasitic on *Meromyza americana*.
 M. MONTOWESI Vier. Pars. of *Paraclemensia acerifoliella*. Mt. Desert, May 29 (Br.).
 M. NANUS Prov. S. W. Harbor, June 27.
 M. NITIDUS Prov. S. W. Harbor, July 13.
 M. NUPERUS Cress. Salisbury Cove, July 25.
 M. PINI Mues. Long Pond, June 17. Parasitic on the white pine weevil (*Pissodes strobi*).
 M. PODUNKORUM Vier. Bar Harbor, Aug. 15.
 M. PYGMAEUS Prov. S. W. Harbor, Sept. 6. Parasitic on Microlepidoptera of the genus *Coleophora*.
 M. TENUICEPS Mues. (Proc. U. S. Nat. Museum, vol. 67, art. 8, p. 46, 1925). Bar Harbor; Salisbury Cove; Narrows, etc., July 10-25. Parasitic on weevils.
 M. n.sp. Muesebeck. Bar Harbor, Aug. 16.

HETEROSPILUS Haliday

- H. LEPTOSTYLI Roh. Pars. of borers in cherry. Mt. Desert, June 28 (Br.).
 H. sp. Hatched ex larch July 1, 1944. In U. S. N. M.

EXOTHECUS Wesmael

- E. sp. det. C. F. W. M. 1938. Bar Harbor, Me., June 7, 1934. Pars. *Lithocolletis corylisella*.

PHANOMERIS Förster

- P. PHYLLOTOMAE Mues. det. C. F. W. M. 1938. Bar Harbor, Me., June 15, 1937. Pars. *Phyllotoma nemorata*, June 10, 1937. Pars. *Phyllotoma* or *Anchylopera*.

NOSERUS Förster

- N.sp. Station F179, Aug. 24.

BUCCULATRIPLEX Viereck

- B. SECUNDUS Vier. Pars. of *Phyllotoma nemorata* Mt. Desert, June 21-28 (Br.). Bred from *Bucculatrix canadensiella*.

RHYSIPOLIS Förster

- R. sp. det. C. F. W. M. 1933. Mt. Desert Isl., Aug. 11, 1932. Pars. Blotch miner white birch (Br.).
R. sp. det. C. F. W. M. 1938. Bar Harbor, June 15-30, 1937. Ex. birch leaves containing *Phyllotoma* (Br.).
R. n. sp. det. C. F. W. M. 1938. Bar Harbor, Ex. *Gracilaria fraxinella*.
R. n. sp. det. C. F. W. M. 1934. Ex. *Gracilaria fraxinella*. Bar Harbor, July, 1933 (Br.).

ONCOPHANES Förster

- O. BETULAE Mues. Type locality. Reared from *Phyllotoma nemorata*, June 8, '33 (Br.).

ROGAS Nees (= *Alciodes* Wesmael)

- R. CANADENSIS (Cress.). Pars. on *Catolata relictata* and *Phyllotoma nemorata*. Mt. Desert, July 13-19 (Br.).
R. INTERMEDIUS Cress. S. W. Harbor; Bar Harbor; Salisbury Cove, June 27-July 18.
R. TERMINALIS Cress. Bar Harbor, June 13.
R. n. sp. Mt. Desert on pine, June 18 (Br.).

CHELONUS Panzer

- C. BASILARIS Say. Echo Lake, July 17.
C. FISSUS Prov. Narrows, July 27.
C. SASSACUS Vier. Narrows; Salisbury Cove, July 25-27.
S. SERICEUS Say. Bar Harbor; Salisbury Cove, July 24-Aug. 16.
S. sp. Salisbury Cove, Aug. 11.
S. sp. Pars. on *Arbor vitae* leaf-miners. Mt. Desert, July 25.

ASCOGASTER Wesmael

A. QUADRIDENTATA Wesm. Reared (Br.). Pars on clothes moth. Nov.

A. n. sp. Tremont, June 20 (Br.).

MIRAX Haliday

M. n, sp. Hunters Beach (Br.). Reared from *Lithocolletis picturatella* in *Myrica cerifera*.

DINARMUS Thomson

D. n. sp. Hatched four from larch June 30. Two in U.S.N.M.

HALTICOPTERA Spinola

H. AENEAE Walk. Bar Harbor pars, miner in *Delphinium*.

MICROGASTER Latreille

M. BREVICAUDA Prov. Salisbury Cove; S. W. Harbor, July 14, 19.

M. CANADENSIS Mues. Pars. on leaf-rollers of poplar. Mt. Desert July 11 (Br.).

M. EPAGOGES Gahan. Salisbury Cove, July 18. Parasitic on *Epagoe sulfureana*.

M. FACETOSA Weed. Common, July 10-20. Parasitic on the clover-moth (*Plathypena scabra*).

M. MELLIGASTER Prov. (*rubricoxa* Prov.). Common on the marshes at the Narrows, July 27.

M. SCHIZURAE Mues. Pars. on the moths. Mt. Desert, June 27 (Br.).

M. n.sp. S. W. Harbor, May 25 (Br.).

MICROPLITIS Förster

M. ALASKENSIS Ashm. S. W. Harbor; Salisbury Cove, July 14-18. Parasitic on *Hadena* and *Plusia*.

M. CERATOMIAE Riley. S. W. Harbor; Bar Harbor, July 20-24. Parasitic on the larvae of *Sphingidae*, *Ceratomia*, *Paonias* and *Sphinx*.

- M. FELTIAE Mues. S. W. Harbor, July 19. Parasitic on "cut-worms" of the genus *Feltia*.
 M. sp. Pars. on *Catocala antingmpha*. Mt. Desert, July 1 (Br.).
 M. n.sp. (Muesebeck). Bar Harbor July 24.
 M. n.sp. S. W. Harbor (Br.), May 25, '36. Det. Muesebeck.

APANTELES Foerster

- A. ACRONYCTAE Riley. Salisbury Cove, July 15. Parasitic on *Acronycta* sp.
 A. ARISTOTELIAE Vier. S. W. Harbor; Salisbury Cove, July 14, 15. Parasitic on *Gelechia trialbamaculella*.
 A. CACOECIAE Riley. S. W. Harbor; Bar Harbor, July 13-26. Parasitic on *Cacoecia*.
 A. CARPATUS Say. Reared from swallows nest. Pars. on *Tinea* (Br.).
 A. CONANCHETORUM Vier. Bar Harbor, July 24.
 A. EDWARDSII Riley. S. W. Harbor; Green Mt., July 20-28. Parasitic on *Vanessa atalanta*.
 A. EPINOTIAE Vier. Witch Hole Pond; S. W. Harbor, Aug. 18-Sept. 6. Parasitic on *Euarmonia*.
 A. FISKEI Vier. Salisbury Cove, July 15.
 A. GLOMERATUS Linn. Pars. on *Ascia rapae*. Mt. Desert, July 16 (Br.).
 A. GRIFFINI Vier. S. W. Harbor, June 27. Parasitic on "cut-worms," *Feltia* sp.
 A. HYPHANTRIAE Riley. On poplar. Mt. Desert, July 8 (Br.).
 A. LONGICORNIS Prov. S. W. Harbor; Long Pond, July 10-19.
 A. MELANOPUS Vier. Echo Lake; Salisbury Cove, June 17-July 18.
 A. MIANTONOMOI Vier. S. W. Harbor, July 14.
 A. ORNIGIS Weed. Green Mt., Aug. 17. Parasitic on *Lithocolletis* sp.
 A. ORBENAE Forbes. Long Pond, July 10. Parasitic on *Evergestis* sp.

- A. *PARALECHIAE* Mues. Pars. on Arbor vitae leaf-miners. Mt. Desert, Aug. 5 (Br.).
- A. *PARASTICHTIDIS* Mues. Pars. on *Archips conflictana* and Arbor vitae leaf-miners. Mt. Desert, July 7 (Br.).
- A. *POLYCHROSIDIS* Vier. Common, July 18-25. Parasitic on *Cocoecia rosaceana*.
- A. *ROHWERI* Mues. S. W. Harbor, June 21. Parasitic on *Gracilaria*.
- A. *RUFOCOXALIS* Riley. Reared from fluffy egg mass, Aug. 5, on grass stem from (Bossard). One in U.S.N.M.
- A. *SCITULUS* Riley. Pars. on *Apatela oblongata*? Sept. 14 (Br.).
- A. *THUJAE* Mues. Type locality. Reared from Arbor vitae leaf-miner, Bar Harbor, July 15, '33 (Br.).
- A. *TISCHERIAE* Vier. S. W. Harbor, Aug. 11. Parasitic on *Tischeria*.
- A. *XYLINUS* Say. Common, June 10-Aug. 16. Parasitic on one of the "cutworms," *Agrotis c-nigrum*.
- A. sp. Pars. on *Dicymolomia julianalis*, Aug. 16 (Br.).
- A. n.sp. Pars. on Arbor vitae leaf-miner. July (Br.).

AGATHIS Latreille

- A. *PERFORATOR* Prov. Bar Harbor; Green Mt., Aug. 10-17.

BASSUS Fabricius

- B. *BICOLOR* Prov. Pars. on *Rhyacionia comstockiana*, July 6 (Br.). Bar Harbor; Salisbury Cove, Aug. 13-18.
- B. n.sp. near *BICOLOR* Prov. Reared July 10, ex *Rhyacionia comstockiana* (Br.). In U.S.N.M.
- B. *BREVICAUDA* Mues. Pars. on *Coleophora* sp. *Myrica asplenifolia* and *Coleophora cinerella*. May-Aug. (Br.).
- B. *CALCARATUS* Cress. Pars. on *Acrobasis comptoniella*, Aug. 5 (Br.).
- B. *CINCTUS* Cress. Pars. on *Coleophora cinerella*, June (Br.).
- B. *PERFORATOR* Prov. Bar Harbor, Aug. 14.
- B. *TIBIATOR* Prov. Green Mt., Aug. 17.
- B. n.sp. Pars. on Arbor vitae leaf-miner, Aug. 5 (Br.).

EARINUS Wesmael

E. LIMITARIS Say May 5. An early spring form.

ORGILUS Haliday

O. GELECHIAE Ashm. Reared ex *Lithocolletis* in *Myrica cerifera*. July 19. Pars oak blotch miner. det. C.F.W.M.

O. LATERALIS Cress. Pars. on Arbor vitae leaf-miner, July 24 (Br.).

O. n.sp. Pars on *Recurvaria thujaella*, July 13 (Br.).

EUBADIZON Nees

E. CRASSIGASTER Prov. Reared from fir infested with borers (Br.), June 27-July 4.

E. GRACILE Prov. Pars. on Arbor vitae leaf-miner, July, Aug. and Sept. (Br.).

E. sp. Bar Harbor, Aug. 15.

MACROCENTRUS Curtis

M. AEGERIA Roh. Eden, June 7-July 19.

M. ATRATUS Mues. Bar Harbor, July 20.

M. HARRISI DeGant. Green Mt., July 25; Bar Harbor, Aug. 10.

M. UNIFORMIS Prov. Reared (Br.) May. Pars on *Pachyne-matus alaskensis*.

M. sp. Bar Harbor, June 7; Salisbury Cove, July 19.

ZELE Curtis

Z. sp. Bar Harbor, June 7; S. W. Harbor, July 15.

HELCON Nees (*Gymnoscelis* Förster)

H. PEDALIS Cress. Bar Harbor, July 26.

OPIUS Wesmael

O. FULVICOLLIS Thoms. Pars on *Chrysophora hermanella* or *lingulacella*, July (Br.).

O. PROVANCHERI D. T. Green Mt., July 25.

- O. sp. Same record as above.
 O. n.sp. Pars on poplar leaf roller. July (Br.).
 O. sp. near *AMPLUS* Ashm. Reared (Br.) from miner on
Impatiens balkamea.
 O. sp. near *MANDIBULARIS* Gahan. Reared (Br.) Pars. miner
 of *Delphinium*, July 29.

METEORUS Haliday

- M. COMMUNIS Cress. Pars. on *Graptolitha* sp. July 5 (Br.).
 S. W. Harbor, July 11. Parasitic on *Hadena* and other
 moths.
 M. DIMIDIATUS Cress. N. E. Harbor; Eagle Lake, July 11-
 18. Parasitic on *Desmia funeralis*.
 M. HYPHANTRIAE Riley. S. W. Harbor; Bar Harbor, June 21-
 July 26. Parasitic on fall webworm, American tent cater-
 pillar, tussock moth, etc.
 M. INDAGATOR Riley. Pars. on *Acrobasis comptoniella*. July
 (Br.).
 M. MAXIMUS Mues. Bred from Lepidopterus larvae from
 maple, June 15 (Br.).
 M. NIVEITARSIS Cress. Bred from *Acrobasis comptoniella*,
 July and *Salebria contatella*, Sept. 28 (Br.).
 M. PALLITARSIS Cress. Long Pond, Sept. 7.
 M. TAURICORNIS Prov. Bar Harbor, June 13-Aug. 10.
 M. VULGARIS Cress. Bred from *Graptolitha* sp., July 5 (Br.).
 Bar Harbor; S. W. Harbor, June 13-Sept. 6. Parasitic on
 various species of "cutworms," *Agrotis ypsilon*, *Feltia sub-*
gothica, *Lycophotia saucia*, etc.

APHIDUS Nees

- A. JUNIPERAPHIDS Gahan. Mt. Desert (Br.), July 30.
 A. sp. Reared from spruce tips.

COELINIDEA Viereck

- C. sp. Echo Lake, June 17.
 C.sp. S. W. Harbor, Aug. 23.

DACNUSA Haliday

D. sp. S. W. Harbor, July 29.

ASPILOTA Förster

A. PETIOLATA Prov.? Det. C. F. W. M. Bar Harbor, June 23 (Br.).

A. sp. Det. C. F. W. M. Pars on *B. canadensisella*, July 1 (Br.).

ICHNEUMONIDAE

Arranged according to the Catalogue of Nearctic Ichneumonidae by H. K. Townes, Jr. Memoirs Amer. Ent. Socy. no. 11, Parts I and II, 1945.

SCAMBUS Hartig

S. ALBORICTA (Cress.). Bar Harbor, June 13.

S. EUURAE (Ashm.). Reared from willow leaf gall, Aug. 12.

S. HISPAE (Harris). Pars. on *C. salmani*, *R. thujaella*, *Dicy-molomia julianalis*, etc., June, July and Aug.

S. PTEROPHORI (Ashm.). Reared (Br.), ex. micro lep. on white spruce terminals, July 7. Narrows, Aug. 13.

S.sp. Salisbury Cove, July 15.

ALOPHOSTERNUM Cushman

A. FOLICOLA (Cush.) Bred from *P. nemorata* and *L. coryllisella*, June (Br.).

A. n.sp. (undescribed). Preying on *P. nemorata* larvae.

CALLIEPHIALTES Ashmead

C. COMSTOCKII (Cress.). Reared from *Pinipestis zimmermanni*, Aug. 16 (Br.).

C. HYALINIPENNIS Vier. From borer infested fir, June 24-27 (Br.).

ICHNEUMON Linnaeus

I. IRRITATOR Fab. Bar Harbor, May 2.

I. MACER (Cress.). Eden, Sept. 15.

I. MANIFESTATOR Linn. Reared from larch, July 2.

- I. MESOCENTRUS (Grav.). N. E. Harbor (Minot); S. W. Harbor (Alexander), Aug. 23–Sept. 15.
I. TUBERCULATUS Fourcroy. Bar Harbor; S. W. Harbor, Sept. 6–10.
I. PUSIO (Walsh.). Corfield and Penikese at light, July 30–Aug. 8.

ISEROPUS Förster

- I. COELEBS (Walsh). Bar Harbor; S. W. Harbor, June 21–Sept. 6. Parasitic on the American tent and forest tent caterpillars, tussock moth, spruce bud worm, etc.

TROMATOBIA Förster

- T. RUFOPECTUS (Cress.). Bar Harbor, June 13. Parasitic on the eggs of spiders in the nest of the *Epeiridae*.
T. RUFOVARIATA (Cress.). N. E. Harbor; S. W. Harbor; Tremont, July 15–Aug. 23.

ZAGLYPTUS Förster

- Z. INCOMPLETUS (Cress.). Bar Harbor, June 13–Sept. 9.

DELOMERISTA Förster

- D. NOVITA (Cress.). Bar Harbor, Aug. 16.

PERITHOUS Holmgren

- P. PLEURALIS Cress. Salisbury Cove, July 19.

ZABRACHYPUS Cushman

- Z. SLOSSONAE (Davis). Bar Harbor; S. W. Harbor; Echo Lake, June 13–July 17.

OXYRRHEXIS Förster

- O. CARBONATOR (Grav.). Echo Lake, June 17–Sept. 23.

POLYSPIINCTA Gravenhorst

- P. BURGESSII Cress. Salisbury Cove, July 27.

ICHNEUMONINI

N. gen. and n.sp. Det. R.A.C. Reared from *P. nemorata* and *L. salicifoliella* (Br.).

COCYGMIMUS Saussure

- C. AEQUALIS (Prov.). Bar Harbor; S. W. Harbor, Aug. 10–23. Parasitic on the tussock moth (*Heemerocampa*).
 C. AQUILONIUS (Cress.). Bar Harbor, June 8–Aug. 10.
 C. NUDUS Townes. Sept. 28 (Br.).
 C. PEDALIS (Cress.). Corfield; Echo Lake; Eden; N. E. Harbor, June 6–Sept. 30. Parasitic on the American tent and Forest tent caterpillars (*Malacosoma*), Gypsy moth (*Por-thetria*), etc.
 C. TENUICORNIS (Cress.). Common, June 7–Sept. 11. Parasitic on *Aegeria*.

EPHIALTES Schrank

- E. ONTARIO (Cress.). Bar Harbor, June 7–Aug. 10. Pars. on the spruce bud worm. Generally distributed.

ITOPLECTIS Förster

- I. BREVACUS Townes. Revision of the *Pimplini* of Eastern N. A. Ann. Ent. Soc. Amer., 83 (2), 315.
 I. CONQUISITOR (Say). Bar Harbor; S. W. Harbor, July 13–Sept. 6. Parasitic on the American and Forest tent caterpillars (*Malacosoma*), etc. Generally distributed.
 I. QUADRICINGULATUS (Prov.). Reared from *Anchylopera* sp. June.
 I. n.sp. Bar Harbor, July 5.

POEMENIA Holmgren

- P. ALBIPES (Cress.). N. E. Harbor, July 12–Aug. 10 (Minot).
 P. AMERICANA (Cress.). Salisbury Cove, July 24.
 P. VANCOUVERIENSIS (Prov.). S. W. Harbor, Sept. 5.

CLISTOPYGA Gravenhorst

- C. CANADENSIS (Prov.). S. W. Harbor, July 25.

RHYSSA Gravenhorst

This genus is reported as parasitic on horn tails of the genera *Sirex* and *Zeris*.

R. LINEOLATA (Kby.). Generally distributed in July and Aug. Reared from larch with *Urocerus albicornis*, which it parasitizes, June '43.

R. PERSUASORIA (Linn.). Bar Harbor, Aug. 10.

MEGARHYSSA Ashmead

M. ATRATA (Fab.). Numbers were ovipositing on dead maple tree at the foot of Newport Mt. June 11. At the same time numbers of *M. nortoni* were at work as were numbers of *Tremex columba*. Generally distributed June-July.

M. GREENEI Viereck. One specimen of this scarce form was taken with those above June 11, '37.

M. NORTONI (Cress.). Echo Lake; Bar Harbor, June 27-July 21. Numbers were ovipositing on the dead maple mentioned above. One small specimen taken June, '34. Common.

THERONIA Holmgren

T. ATALANTAE (Poda). Witch Hole Pond, Sept. 11.

T. HILARIS (Say). Laboratory, Sept. 8.

XORIDES Latreille (*Xylonomus* Gravenhorst)

X. ALBOPICTUS (Cress.). Several hatching under the bark of a dead maple at the Tarn, May 23, '37. Supposed to be parasitic on *Saperda discoidea*.

X. HUMERALIS (Say). Salisbury Cove, July 27.

X. STIGMAPTERUS STIGMAPTERUS (Say). Salisbury Cove, June 9.

ODONTOCOLON Cushman

O. ATRIPES (Roh.). Bar Harbor, June 21.

O. AETHIOPS (Cress.). Bar Harbor, June 21.

O. CANADENSE (Prov.). Echo Lake; Long Pond, June 26-July 12. Parasitic on *Leptura*, *Dicerca* and other wood-boring beetles. Type locality Echo Lake. Type taken by C. W. Johnson. Proc. U.S.N.M. Vol. 77, Art. 3, pp. 1-15. No. 2826, pp. 11-12.

- O. MELLIPES (Say). Bar Harbor, June 21–Sept. 11.
O. sp. Corfield, June 15.
O. sp. Corfield, June 15.

COLEOCENTRUS Gravenhorst

- C. RUFUS Prov. July. Record of capture lost.
C. RUFUS Prov. var. Seal Harbor (David Rockefeller).
C. sp. N. E. Harbor, July 10 (Minot).
C. n.sp. One taken June 26 and one July 2, 1929. One in U.S.N.M. and other number 1990 in cabinet.

AROTES Gravenhorst

- A. AMOENUS Cress. Echo Lake; Bar Harbor, June 17–July 22.
A. FORMOSUS Cress. Bar Harbor, July 22.
A. VICINUS Cress. Bar Harbor, Robinson Mt. (Alexander), July 26–Sept. 3.

ECLYTUS Holmgren

- E. ORNATUS Holm. Seal Cove, June 20.
E. PLEURALIS (Prov.). Echo Lake, July 18.

PHYTODIETUS Gravenhorst

- P. FUMIFERANAE Roh. Bred from lepidopterus larvae, May 28 (Br.).
P. VULGARIS Cress. Pars. on *Eulia pinatubana* and poplar leaf roller, June 4–July 27 (Br.). Common, July 15–Sept. 11.

NETELIA Gray

- N. (PARABATUS) DECEPTOR (Morley). Bar Harbor, Oct. 3 (Br.).
N. (PAROPHELTES) BARBERI (Cush.). Bar Harbor, Oct. 1 (Br.).
N. (NETELIA) GERMINATUS (Say). Bar Harbor; Echo Lake; N. E. Harbor, June 7–July 20.
N. (NETELIA) SAYI (Cush.). Bar Harbor (Br.). Nov. 5.

N. (PAROPHELTES) TARSATA (Brischke). Bar Harbor, Aug. 29–Oct. 1 (Br.).

N sp. Aug. 18 (Br.).

GRYPOCENTRUS Ruthe

G. sp. Pars. sawfly on blackberry, Oct. 2 (Br.).

POLYBLASTUS Hartig

P. FULVILINEALIS Hall. Witch Hole Pond, Aug. 18.

P. PEDALIS (Cress.). Pars. on *Croesus latitarsus* (Br.). Echo Lake; S. W. Harbor, June 17–July 20.

P. TIBIALIS (Cress.). S. W. Harbor, July 20.

LABROCTONUS Förster

L. sp. Bar Harbor; Green Mt., July 25–Aug. 18.

L. n.sp. Bar Harbor, Aug. 23 (Br.). In U.S.N.M.

SCOPIORUS Förster

S. ANALIS (Cress.). S. W. Harbor; Long Pond, July 12–24.

S. SUBCRASSUS (Cress.). S. W. Harbor, June 25.

ERROMENUS Holmgren

E. DIMIDIATUS (Cress.). Narrows; Bar Harbor; Salisbury Cove, June 9–July 23.

E. sp. near CRASSUS (Cress.). Bred from sawfly material, May 26 (Br.).

TRYPHON Fallén

T. DAVISI Tow. Bar Harbor, July 2 (Br.).

COSMOCONUS Förster

C. CANADENSIS (Prov.). Salisbury Cove; N. E. Harbor; Green Mt., July 19–Aug. 23.

EXENTERUS Hartig

E. AFFINIS Roh. On pine, July 29. In U.S.N.M.

E. CANADENSIS Prov. Reared July 29 (Br.).

CTENISCUS Haliday

C. ORBITALIS Cress. Echo Lake; S. W. Harbor, June 12–July 17.

C. ORNATUS (Walsh). Long Pond; S. W. Harbor; Bar Harbor, June 13–Sept. 7.

SMICROPLECTRUS Thomson

S. ALBILINEATUS Walsh. June 15. In U.S.N.M.

S. ANNULIPES Cress. Record of capture lost.

BATHYTHRIX Förster

B. TRIANGULARIS Cress. Bar Harbor, June 2 (Br.).

MASTRUS Förster

M. SUBSPINOSUS Prov. Bar Harbor, June 12.

OTACUSTES Förster

O. CRASSUS CRASSUS (Prov.). S. W. Harbor, July 30.

ISDROMAS Förster

I. WASHINGTONENSIS Cush. Bred from *P. nemorata*. May 28 (Br.).

I. sp. Bar Harbor, Aug. 27 (Br.).

DIAGLYPTIDEA Viereck

D. LAVOIEI (Prov.). Long Pond, July 16.

GELIS Thunberg

G. OBSCURUS (Cress.). Pars. on *B. canadensiella*. June 29 (Br.); S. W. Harbor, July 13.

G. TENELLUS (Say). Bar Harbor; Salisbury Cove; S. W. Harbor, June 7–Sept. 3.

G. URBANUS (Brues.). Pars. on *Diprion polytomum*, *Anchylopera*, *P. nemorata*, Station F290.

G. sp. Pars on *Exema conspersa*, Aug. 25.

G. sp. Pars. on *P. nemorata*.

G. sp. Pars. on Arbor vitae leaf-miner, July 21 (Br.).

STERNOCRYPTUS Roman

S. BITINCTUS (Grav.). Reared (Br.) from *Chrysophora lingulacella hermanella* on *chenopodium*, Aug. 27.

ENDASYS Förster

E. PUBESCENS (Prov.). General distribution June 8–July 30.

E. SUBCLAVATUS (Say). General distribution July 11–Aug. 25.

E. ROTUNDICEPS (Prov.). Echo Lake, July 17.

E. (GLYPHICNEMIS) MANDIBULARIS Cress. Salisbury Cove; Bar Harbor, June 22–July 27.

ERIPLANUS Förster

E. MICATOR (Grav.). Jordan Pond; Echo Lake; S. W. Harbor, June 10–July 16.

PHYGADEUON Gravenhorst

P. AMERICANUS (Cush.). S. W. Harbor, June 27.

P. OVALIS Prov. S. W. Harbor, July 11–Aug. 21.

P. sp. Bar Harbor, June 22.

P. sp. Salisbury Cove, July 25.

P. sp. Sept. 23 (Br.).

ISELIX Förster

I. sp. From weevils in blister rust pine, Sept. 14 (Br.).

MESOLEPTUS Gravenhorst

M. sp. S. W. Harbor, July 14.

ATRACTODES Gravenhorst

A. COMPRESSUS (Cress.). Green Mt., Aug. 25.

A. sp. Bar Harbor, Sept. 10.

CUBOCEPHALUS Ratzeburg

C. LATUS (Prov.). Bar Harbor, July 24.

C. sp. Salisbury Cove, June 9–July 24.

- C. sp. S. W. Harbor, July 30.
C. sp. Bar Harbor, June 8.
C. sp. Bar Harbor, Sept. In U.S.N.M.

APTESIS Förster

- A. DECORATA (Prov.). Bar Harbor, June 7.
A. INDISTINCTA (Prov.). Reared Apr. Reared from *Picea rubra*. Pars. *Pacynematus alaskensis* (Br.).
A. sp. S. W. Harbor, June 21.
A. sp. Mt. Desert (Br.), July 6.
A. sp. Bar Harbor, Sept. 26 (Br.). In U.S.N.M.

MEGAPLECTES Förster

- M. sp. Bubble Pond Inlet, Station F100.

GIRAUDIA Förster

- G. sp. S. W. Harbor, Sept. 8.

POLYTRIBAX Förster

- P. CONTIGUUS (Cress.). Bar Harbor; S. W. Harbor, June 22–25.
P. CROTCHII (Cress.). Bar Harbor, May 5 (Br.).

RHEMBOBIUS Förster

- R. sp. Narrows, July 9.

DEMOPHELES Förster

- D. MATURUS (Prov.). Reared from larch, July 4.

TRYCHOSIS Förster

- T. MONTIVAGUS (Prov.). Bar Harbor, June 2.
T. SUBGRACILIS (Cress.). Eden, July 24.
T. sp. Record of capture lost.
T. sp. Bar Harbor, July 19 (Br.).

GAMBRUS Förster

- G. APICATUS (Prov.). Bar Harbor; Narrows, July 5-27.
G. CANADENSIS (Prov.). Mt. Desert, Sept. 8 (Br.).
G. EXTREMATIS (Cress.). Reared (Br.), July 28.
G. NUNCIUS (Say). Witch Hole Pond, Sept. 11. Pars on
Telea polyphemus and other large moths.
G. n.sp. near NUNCIUS Det. R. A. Cushman 1938. Reared
from *T. polyphemus*, July 16 (Br.).
G. ULTIMUS (Cress.). Record of capture lost.
G. ZOESMAIRI (D.T.). Bar Harbor, Sept. 10.
G. sp. N. E. Harbor, June 26 (Minot).

AGROTHEREUTES Förster

- A. CIMBICIVORUS (Cush.). S. W. Harbor, July 28. Pars on
Cimbex americana.
A. LOPHYRI (Nort.). N. E. Harbor (Minot); Bar Harbor,
June 7-July 16. Pars. spruce sawfly. *Neodiprion abietis*.
A. MAJOR (Davis). Hunters Beach, Oct. 22. Reared from
Phyllotoma nemorata (Br.), June 6-July 29.
A.sp. In U.S.N.M.

ISCHNUS Gravenhorst

- I. ATRICOLLARIS (Walsh). Bar Harbor; Eagle Lake; Echo
Lake, June 11-Aug. 12.
I. sp. Bar Harbor, June 8.

CRYPTUS Fabricius

- C. ALBITARSIS ALBITARSIS (Cress.). Bar Harbor; Eden, June
15-Sept. 2.
C. PERSIMILIS Cress. Narrows, June 27.

MESOTENUS Gravenhorst

- M. THORACICUS Cress. Bar Harbor, June 21-Sept. 13.

ECHTHRUS Gravenhorst

- E. ABDOMINALIS Cress. Mt. Desert (Br.), June 16-July 7.

MESSATOPORUS Cushman

M. DISCOIDALIS (Cress.). Mt. Desert (Br.), June 23.

ACRORICNUS Ratzeburg

A. AEQUATUS AEQUATUS (Say). Bar Harbor; North East Harbor; South West Harbor, June 11-Aug. 10.

PHAEOGENES Wesmael

P. ATER Cress. Bred from *Sesia* July 18 (Br.). Bar Harbor; Salisbury Cove, June 13-July 27.

P. EPINOTIAE Cush. Record of capture lost.

P. GASPESIANUS Prov. S. W. Harbor; Long Pond; Salisbury Cove, July 16-29.

P. HARIOLUS (Cress.). Salisbury Cove, July 22.

P. sp. near HARIOLUS (Cress.). Bred from *Acrobasis comptoniella*, Aug. 7 (Br.).

P. HEBE (Cress.). S. W. Harbor; Salisbury Cove, July 14-Aug. 10.

P. HEBRUS (Cress.). Salisbury Cove, July 18.

P. PARVUS (Prov.). Beaten from spruce, Sept. 18 (Br.).

P. VINCIBILIS (Cress.). Echo Lake; Bar Harbor; S. W. Harbor, July 12-Aug. 10.

P. PYRIFORMIS (Prov.). Witch Hole, Sept. 12.

P. sp. Bar Harbor, June 17.

P. sp. Salisbury Cove; Bar Harbor, July 24-Sept. 10.

P. sp. Ectoparasite, June 5.

CENTETERUS Wesmael

C. FUNGOR (Cress.). Bar Harbor; Salisbury Cove, July 27-Aug. 16. Pars. on spruce sawfly *Neodiprion abietis*.

COLPOGNATHUS Wesmael

C. HELVUS (Cress.). N. E. Harbor, Aug. 10 (Minot).

DICAELOTUS Wesmael

D. sp. S. W. Harbor, Sept. 8.

D. sp. Beaten from spruce, Sept. 18 (Br.).

PLATYLABUS Wesmael

- P. CANADENSIS Cress. Bar Harbor, June 21.
 P. CLARUS (Cress.). Sept. 26 (Br.).
 P. LINEOLATUS (Prov.). July 19 (Br.). In U.S.N.M.
 P. VAFER (Cress.). Bar Harbor, June 22.
 P. s.sp. Bar Harbor, July 29.

ANISOBAS Wesmael

- A. LUZERNENSIS (Brad.). S. W. Harbor, July 10. One specimen (Johnson) Proc. U.S.N.M. Vol. 67, Art. 23, p. 2.

HOPLISMENUS Gravenhorst

- H. RUTILUS (Cress.). S. W. Harbor, July 29.

MELANICHNEUMON Thomson

- M. BREVICINCTOR (Say). S. W. Harbor, Aug. 14 (Fernald).
 M. DISPARILIS (Cress.). Mt. Desert (Br.), June 7.
 M. LEVICULUS (Cress.). Salisbury Cove, July 14.
 M. MIMICUS (Cress.). S. W. Harbor, Sept. 6.
 M. NIGRIPES (Prov.). Bar Harbor, June 2.
 M. RUBICUNDUS (Cress.). S. W. Harbor; Bar Harbor, July 15-19.
 M. SUBCYANEUS (Cress.). Bar Harbor, June 21.

CRATICHNEUMON Thomson

- C. ACERBUS (Cress.). Bar Harbor; S. W. Harbor; Narrows, July 11-Aug. 18. Pars. on fall web worm.
 C. PARATUS (Say). Bar Harbor; Sand Beach; S. W. Harbor, June 15-Aug. 10.
 C. PROXIMUS (Cress.). N. E. Harbor, June 26 (Minot).
 C. PTERIDIS Townes. Bar Harbor; Salisbury Cove; S. W. Harbor, July 11-20.
 C. QUINTILIS (Vier.). Salisbury Cove; Bar Harbor, July 14-Sept. 11.
 C. SIGNATIPES (Cress.). Bar Harbor, July 24.
 C. near SIGNATIPES (Cress.). Salisbury Cove, July 17.

- C. SUBLATUS* (Cress.). Salisbury Cove; Bar Harbor, July 17–Aug. 16.
C. UNIFASCIATORIUS (Say). Salisbury Cove, July 14; S. W. Harbor, Aug. 22 (Fernald).
C. VESCUS (Prov.). Bar Harbor; Echo Lake, June 13–17.
C. W-ALBUM (Cress.). S. W. Harbor; Bar Harbor; Echo Lake, July 20–Sept. 7.

AOPLUS Tischbein

- A. BIOCULATUS* (Cress.). S. W. Harbor, July 28.
A. CINCTICORNIS (Cress.). S. W. Harbor; Bar Harbor; Salisbury Cove, July 15–Sept. 6.
A. CONFIRMATUS (Cress.). N. E. Harbor, July 23 (Minot).
A. VELOX (Cress.). Bar Harbor, Jordan Pond, June 10–July 21.
A. near VAGANS (Prov.). Bar Harbor, June 15.

PATROCLUS Cresson

- P. MONTANUS* (Cress.). Salisbury Cove, July 23.
P. PERLUCTUOSUS (Prov.). Bar Harbor, June 21.

EXEPHANES Wesmael

- E. TERMINALIS* (Prov.). Bar Harbor, June 21.

ECTOPIMORPHA Viereck

- E. LUPERINAE* Cush. Great Heath, Oct. 5.

PSEUDAMBLYTELES Ashmead

- P. COMES* (Cress.). Bar Harbor, July 17; Station F136.
P. COMPTUS (Say). Aug. 27 (Br.).
P. MILVUS (Cress.). Sept. 25 (Br.).
P. sp. Bar Harbor, Sept. 25 (Br.).

AMBLYTELES Wesmael

- A. BRONTEUS* (Cress.). Mt. Desert (Br.), July 1.
A. DETRITUS (Brullé). Salisbury Cove, July 24.

- A. FRATERNUS (Cress.). Echo Lake; S. W. Harbor (Fernald), June 27–July 19.
 A. NUBIVAGUS (Cress.). Salisbury Cove, July 17.
 A. near NUBIVAGUS (Cress.). S. W. Harbor, July 15.
 A. ORMENUS (Cress.). Common, June 13–Aug. 29.
 A. PERANNULATUS Hopper. Aug. 27 (Br.).
 A. SUBRUFUS (Cress.). Salisbury Cove; Bar Harbor, June 21–July 25.
 A. SUPURBUS (Prov.). Bar Harbor; S. W. Harbor, June 21–Sept. 13.
 A. n.sp. Reared from *R. thujella*, July 8–15 (Br.).

SPILICHNEUMON Thomson

- S. POMILUS Prov. Bar Harbor, July 24.

CTENICHNEUMON Thomson

- C. near EXCULTUS (Cress.). Bar Harbor, July 15.
 C. STADACONENSIS (Prov.). Bar Harbor; Salisbury Cove, June 14–July 24.

PTEROCORMUS Förster

- P. ATROX (Cress.). Bar Harbor, June 9.
 P. BIMEMBRIS (Prov.). Salisbury Cove; Green Mt., July 23–Aug. 17.
 P. near BIMEMBRIS (Prov.). Bar Harbor, July 13.
 P. CENTRATOR (Say). Mt. Desert (Br.), Apr. 13; Sand Beach, July 11.
 P. CERVULUS (Prov.). Salisbury Cove, July 24.
 P. CINCTITARSIS (Prov.). Salisbury Cove, July 23.
 P. CREPERUS (Cress.). S. W. Harbor, July 15.
 P. DEVINCTOR (Say). Salisbury Cove; Echo Lake, July 17–Sept. 7.
 P. FERALIS (Cress.). Echo Lake, July 12; Western Mt. under spruce bark, Sept. 30.
 P. FUNESTUS (Cress.). Great Heath, June 21–Oct. 5.
 P. HOSPITUS (Cress.). S. W. Harbor, July 15.

- P. INSTABILIS* (Cress.). Common June 20–July 25. Pars. on *Phyciodes tharos*.
P. LAETUS (Brullé). Catkins, Apr. 25, Station F300; Salisbury Cove, June 11–July 23.
P. MAIUS (Cress.). Common July 12–Sept. 8.
P. NIGROVARIEGATUS (Prov.). Long Pond; S. W. Harbor, July 10–Aug. 21.
P. PARVUS (Cress.). Witch Hole Pond; Bar Harbor, July 5–30.
P. RUFIVENTRIS (Brullé). S. W. Harbor, Salisbury Cove, July 15–24.
P. STYGICUS (Cress.). Salisbury Cove, July 25.
P. SUBDOLUS (Cress.). S. W. Harbor, June 18–Sept. 12.
P. VICINUS (Cress.). Salisbury Cove, July 18.
P. VIVAX (Cress.). Narrows; S. W. Harbor, June 9–20.
P. near VOLESUS (Cress.). Long Pond, Aug. 21.
P. sp. Bar Harbor, Aug. 7 (Br.). In U.S.N.M.

COELICHNEUMON Thomson

- C. AZOTUS* (Cress.). N. E. Harbor, Aug. 11 (Minot).
C. CAERULEUS (Cress.). N. E. Harbor (Minot); Echo Lake, Sept. 7. Parasitic on tussock moth.
C. CAERULEUS (Cress.) var. One specimen, Station F340.
C. GERMANUS (Cress.). Bar Harbor; S. W. Harbor; Long Pond, June 7–Aug. 27.
C. JEJUNUS (Cress.). Green Mt., Aug. 17.
C. MAURUS (Cress.). Bar Harbor, June 21.
C. NAVUS (Say). Pars. on sawfly from ash, June 20 (Br.).
C. VIOLA (Cress.). Bar Harbor; Salisbury Cove, June 21–July 24.
C. VITALIS (Cress.). Salisbury Cove; S. W. Harbor, July 24–Sept. 6.

PROTICHNEUMON Thomson

- P. GRANDIS* (Brullé). Generally distributed July 24–Sept. 6.

GNAMPTOPELTA Hopper

- G. OBSIDIANATOR (Brullé). Salisbury Cove, July 17-24. Parasitic on *Papilio polyxenes*.

CONOCALAMA Hopper

- C. (TMETOGASTER) NUBILIPENNIS (Hald.). Trans. Amer. Ent. Soc., 1939. On vines, Corfield, July 27.

TROGUS Panzer

- T. FULVIPES Cress. Common, July 8-24.
T. PENNATOR (Fab.). Salisbury Cove, July 14-17. Parasitic on *Papilio polyxenes* and *turnus*.

GLYPTA Gravenhorst

- G. CANADENSIS Cress. N. E. Harbor, June 29 (Minot).
G. ERRATICA Cress. Common, June 17-Sept. 8. Parasitic on *Polygonia comma*.
G. MACRA Cress. Salisbury Cove; S. W. Harbor; Narrows, July 10-Aug. 13.
G. RUFOFASCIATA Cress. Salisbury Cove, July 19; Bar Harbor, Aug. 22.
G. VARIPES Cress. S. W. Harbor, July 22.

AMERISIBIA Förster

- A. SUPERBA (Prov.). Bar Harbor, June 9-22.

LAMPRONOTA Curtis

- L. PLEURALIS Cress. Common, July 19-Sept. 6.
L. sp. near PLEURALIS Cress. Reared from *Sessia*, July 9-17 (Br.).
L. sp. Bar Harbor (Br.), May 23.

LISSONOTA Gravenhorst

- L. sp. Pars. on *Pinipestis zimmermanni* (Br.), May 16.
L. RUFIPES Cress. S. W. Harbor, Sept. 6.
L. VARIA Cress. Salisbury Cove, N. E. Harbor; S. W. Harbor, July 25-Sept. 6.

PIMPLOPTERUS Ashmead

- P. FRIGIDUS Cress. S. W. Harbor; Narrows, July 20-27. Pars. on sawfly *Nematus*.
 P. NIGRIPES Prov. Echo Lake, July 17.
 P. PARVUS Cress. Bar Harbor; N. E. Harbor, July 20-Aug. 10.
 P. PUNCTULATUS Cress. Bar Harbor, Sept. 10-13.
 P. RUBRICUS Cress. Salisbury Cove, July 13-Aug. 9.
 P. n.sp. Bar Harbor, Apr. 21 (Br.).
 P. sp. Bar Harbor, Aug. 30 (Br.).

ASPHRAGIS Förster

- A. MIRABILIS Cress. Mt. Desert, Aug. 9. In B.S.N.H.

SYZEUCTUS Förster

- S. ELEGANS (Cress.). Reared from *Melalopa* sp. June 29 (Br.).

EXETASTES Gravenhorst

- E. NERVULUS var. NERVULUS (Say). S. W. Harbor; Eagle Lake; Bar Harbor, June 21-July 19.
 E. NERVULUS var. INTERMEDIUS Cush. Type locality. Collected by C. A. Johnson. Proc. U.S.N.M. Vol. 84, pp. 243-312 (no. 3017), p. 130.
 E. NERVULUS var. RUFOFEMORATUS Prov. S. W. Harbor, Narrows, July 15-Aug. 13.
 E. SUAVEOLENS Walsh. Common, July 14-27.

BANCHUS Fabricius

- B. BOREALIS Cress. Bar Harbor; N. E. Harbor, June 7-July 8.
 B. INERMIS Prov. Mt. Desert (Br.), June 7.
 B. PALLESCENS Prov. Bar Harbor, July 10.
 B. SUPERBUS Cress. S. W. Harbor, May 25.

EUCEROS Gravenhorst

- E. MEDIALIS Cress. S. W. Harbor, June 21.
 E. THORACICUS Cress. Bar Harbor; Echo Lake, July 10-18.

RHORUS Förster

- R. (CYPHANZA) OBSCURELLUS (Cress.). Bar Harbor, June 22.
R. (CYPHANZA) TRISTIS (Prov.). Reared (Br.), July 9.
R. (CYPHANZA) VARIFRONS (Cress.). Pretty Marsh; Salisbury Cove; Bar Harbor, June 20–July 14.
R. sp. Reared from *Pteronidea alaskensis* (Br.), Apr. 19.
R. sp. Reared (Br.), July 6.
R. sp. Reared from *Pteronidea populi* (Br.), July 1.

PION Schiödte

- P. FUCATUS FUCATUS (Cress.). Common, July 22–Sept. 6.

CTENOPELMA Holmgren

- C. n.sp. near NIGRICORNE (Prov.). Bar Harbor, June 14.

XENOSCHESIS Förster

- X. CINCTIVENTRIS (Ashm.). S. W. Harbor, July 10.
X. n.sp. Pars on *Lyda P. banksiana*, Sept. 1934. Pars. *Lyda*, Aug. 22 and 24, 1936 (Br.).
X. n.sp. Bred from *Lyda* sp. on *P. rigida*, VII 16, '37. Same sp. reared in 1935 and 1936 from *Lyda* (Br.).
X. n.sp. Echo Lake, July 19.

HOMASPIS Förster

- H. SLOSSONAE Cush. Reared (Br.) ex *Pinus rigida*, June 29.

NOTOPYGUS Holmgren

- N. sp. N. E. Harbor, Aug. 10 (Minot).
N. n.sp. About larvae of *Lyda* sp. on *P. banksiana*, Sept. 26 (Br.).

OPHELTES Holmgren

- O. GLAUOPTERUS FLAVIPENNIS (Prov.). Pars. *Cimber americana*, Common, July 14–Sept. 24.

PERILISSUS Holmgren

P. CONCOLOR (Cress.). Mt. Desert (Br.), June 3.

P. DECOLORATUS (Cress.). Long Pond, July 16.

LAPHYROSCOPUS Förster

L. sp. Echo Lake, June 17.

LATHIOLESTES Förster

L. RUFIGASTER Cush. Bred from sawfly material in blackberry, Oct. 2 (Br.).

PROTARCHUS Förster

P. MAGNUS (Davis). Record of capture lost.

MESOLEIUS Holmgren

M. ANTENNATUS Prov. Echo Lake, July 12.

M. CANALICULATUS (Prov.). S. W. Harbor, June 16–July 23.

M. STRIATUS Davis. Long Pond, Sept. 7.

M. SUBMARGINATUS (Cress.). Bar Harbor; S. W. Harbor, June 22–July 20.

M. sp. Pars. on *D. polytomum*.

M. sp. Bar Harbor (Br.), Aug. 20.

M. sp. S. W. Harbor, June 5.

M. sp. Bar Harbor, Aug. 18.

M. n.sp. Bar Harbor, July 22 (Br.). In U.S.N.M.

M. sp. Reared, Sept. 13 (Br.).

LAMACHIUS Förster

L. CONTORTIONIS Davis var. Sept. (Br.), det. R. A. C.

L. sp. Aug. 10. Pars. on noctuid (Br.).

SAOTIS Förster

S. MELLIPES (Prov.). Reared from sawfly on ash (Br.), June 8–20.

SYNOMELIX Förster

S. sp. S. W. Harbor, July 10.

DIALGES Förster

- D. FRONTALIS Davis. S. W. Harbor, June 25.
D. TRICOLOR Davis. Salisbury Cove, July 14.

MESOLEPTIDEA Viereck

- M. DECENS (Cress.) Aug. 27 (Br.).

POLYTERUS Förster

- P. sp. Bar Harbor, Aug. 28 (Br.). In U.S.N.M.

SYNDIPNUS Förster

- S. RUBIGINOSUS Walley. Reared *Pacynematus alaskensis*.

HYPAMBLYS Förster

- H. ALBOPICTUS (Grav.). Reared from pear slug (Br.), June 18. Det. R. A. C.

HADRODACTYLUS Förster

- H. ELONGATUS (Cress.). Echo Lake, July 12.
H. INCEPTUS (Cress.). Seal Cove, June 20.

EURYPROCTUS Holmgren

- E. LONGIPES (Prov.). Long Pond, Sept. 7.

CALLIDIOTES Förster

- C. ALBOPLEURALIS (Prov.). Long Pond, Sept. 7.

CYLLOCERIA Schiödte

- C. SEXLINEATA (Say). Common July 18–Aug. 21.

BLAPTICUS Förster

- B. sp. Pars on *P. nemorata* (Br.), June 15.

CATASTENUS Förster

- C. sp. Echo Lake, July 17.

PROCLITUS Förster

- P. LONGICAUDUS* (Prov.). Bar Harbor; Echo Lake; S. W. Harbor, June 13–July 29.
P. ROYI (Prov.). Bar Harbor, Aug. 10.

PLECTISCIDEA Viereck

- P. CARINATA* (Prov.). Bar Harbor; Salisbury Cove, July 10–25.
P. PARVA (Cush.). Echo Lake, July 17.
P. n.sp. Bar Harbor, Aug. 10.

APERILEPTUS Förster

- A. GRACILIS* (Prov.). Echo Lake; Long Pond, July 11–17.

ORTHOCENTRUS Gravenhorst

- O. sp.* N. E. Harbor, June 28 (Minot).

STENOMACRUS Förster

- S. UNDULATUS* (Davis). Bar Harbor, Aug. 10.
S. sp. Pars. on *P. nemorata*, July 7 (Br.).
S. sp. Pars. on *P. nemorata*, July (Br.).

DIPLAZON Nees

- D. LAETATORIUS* (Fab.) Common, July 10–Aug. 13.
D. PECTORATORIUS (Thbg.). Bar Harbor; Salisbury Cove, June 22–July 14.
D. SCUTELLARIS (Cress.). Salisbury Cove, July 24.
D. TETRAGONUS (Thbg.). Bar Harbor; Echo Lake, June 7–17.
D. n.sp. Long Pond, Aug. 21.

ZOOTREPHUS Thomson

- Z. BIZONARIUS* (Grav.). S. W. Harbor, July 15.

PROMETHES Förster

- P. ELONGATUS* (Prov.). S. W. Harbor; Narrows, July 13–Aug. 13.
P. SULCATOR (Grav.). Bar Harbor, June 7–Aug. 10.

SYRPROCTONUS Förster

- S. ALBOPICTUS (Davis). Bar Harbor, July 26.
S. AGILIS (Cress.). Salisbury Cove; Bar Harbor, Aug. 7-10.
S. FOUTSI Cush. Bar Harbor, June 15 (Br.).
S. HUMERALIS Prov. Echo Lake, June 17.

CHORINAEUS Holmgren

- C. CARINATUS (Cress.). Bar Harbor; Salisbury Cove, July 10-Oct. 2.
C. n.sp. Eagle Lake, July 18.

PERIOPE Curtis

- P. AETHIOPS (Cress.). S. W. Harbor, Sept. 8.

TRICLISTUS Förster

- T. FULVIPES Cress. S. W. Harbor, July 20.
T. THORACICUS (Ashm.). Bar Harbor, Aug. 25 (Br.).

HYPsicERA Latreille

- H. FEMORALIS (Fourcroy). Salisbury Cove, July 13.

EXOCHUS Gravenhorst

- E. ALBIFRONS Cress. Reared ex *Archips cerasivorana*.
E. DORSALIS Cress. N. E. Harbor (Minot), Aug. 10.
E. SEMIRUFUS. Bar Harbor, Aug. 27-Oct. 3.
E. XANTHOPSIS Ashm. July 8.
E. n.sp. S. W. Harbor, June 21.
E. sp. Reared from *Ancylis* and *P. nemorata* (Br.), June 2-July 5.

PYRACMON Holmgren

- P. MACROCEPHALUM (Prov.). Reared (Br.).

CYMODUSA Holmgren

- C. DISTINCTA (Cress.). S. W. Harbor, July 13.

CAMPOPLEX Gravenhorst

- C. DREPRESSUS Vier. Pars. of the maker of a gall on *Solidago*, May 31.
C. MACER (Cress.). Bar Harbor, Sept. 10.
C. sp. near NOLAE (Ashm.). Bar Harbor, June 18.
C. PORRECTUS (Cress.). Narrows, June 26–Aug. 13.
C. sp. Reared probably from a lepidopterus leaf-miner (Br.), June 15.
C. sp. Bar Harbor, July 13.
C. sp. Mt. Desert, July 23 (Br.).

CAMPOLETIS Förster

- C. ARGENTIFRONS (Cress.). Salisbury Cove, July 23–Aug. 24.
C. ATYPICUS (Vier.). On willow catkins, Apr. 29. In U.S.N.M.
C. PATSUKETORUM (Vier.). Bar Harbor, July 30.
C. sp. Bar Harbor, July 19 (Br.). In U.S.N.M.

CAMPOPLEGIDEA Viereck

- C. ASSITA (Nort.). Bar Harbor; Echo Lake, June 11–27.
C. GLAUCA GLAUCA (Nort.). Echo Lake, Sept. 7.
C. VARIABILIS (Franklin). S. W. Harbor, July 20.
C. VILLOSA (Nort.). Salisbury Cove, July 15.
C. VITICOLLIS (Nort.). N. E. Harbor (Minot); Witch Hole Pond, July 26–July 30.

HOROGENES Förster

- H. AESTIVALIS (Vier.). Little Duck Island (Br.), June 28.
A case bearer on currant.
H. SOLENOBIAE (Ashm.). Pars. of *Solenobia washiella*.
H. sp. S. W. Harbor; Echo Lake, June 17–22.
H. sp. Bar Harbor (Br.), July 8. A case bearer on *Myrica aspenifolia*.
H. n.sp. Reared from lepidopterus larva on sumac leaves (Br.), Aug. 2.
H. sp. Reared from *Tetralopha* sp. (Br.), July 1.
H. sp. Bar Harbor, Aug. 30 (Br.).
H. sp. Reared from lep. poplar material (Br.).

HYPOSOTER Förster

- H. ANNULIPES (Cress.). Bar Harbor; Salisbury Cove; S. W. Harbor, June 11–Sept. 10. Parasitic on *Mamestra*.
H. FUGITIVUS FUGITIVUS (Say). Bred from *Schizura concinna*, Sept. 26 (Br.).
H. PILOSULUS (Prov.). Bred from *Hypantria textor*, Oct. 10 (Br.).
H. sp. Bar Harbor, May 2 (Br.). In U.S.N.M.

CAMPOCTONUS Viereck

- C. CURRANI (Vier.). Mt. Desert, June 22.

OLESICAMPE Förster

- O. sp. Reared from sawfly on willow.
O. sp. Echo Lake, July 17.
O. sp. S. W. Harbor, July 15.

ZALEPTOPYGUS Viereck

- Z. MELLIPES (Prov.). Echo Lake; Long Pond, July 12–17.
Z. n.sp. Narrows, Aug. 13.

CREMASTUS Gravenhorst

- C. FORBESI Weed. S. W. Harbor, July 29.
C. RECTUS Prov. S. W. Harbor, Aug. 16.
C. sp. Salisbury Cove, July 25.
C. sp. Bred from *Tetralopha* and a leaf-webber on poplar, July (Br.).

LEPTOPYGUS Förster

- L. BOREALIS (Prov.). July 19 (Br.).
L. sp. Long Pond; Salisbury Cove, Aug. 21.

CRATOPHION Thomson

- C. ERRABUNDUS (Prov.). S. W. Harbor, Sept. 6.

TERSILOCHUS Holmgren

T. n.sp. April 28 (Br.).

APHANISTES Förster

A. HYALINUS (Nort.). Bar Harbor; Salisbury Cove; S. W. Harbor, June 8–July 28.

ERIGORGUS Förster

E. ACLERIVORUS (Roh). Pars. on *A. comptoniella*.

E. CURTUS (Nort.). Bar Harbor (Br.), May 1.

E. LATERALIS Brullé. S. W. Harbor; Narrows, June 25–July 17.

E. SEMIRUFUS (Nort.). S. W. Harbor, July 18.

AGRYPON Förster

A. sp. Bar Harbor, June 17. Said to be pars. on *Phyllotoma nemorata*. In U.S.N.M.

LABRORYCHUS Förster

L. BOREALIS (Ashm.). Echo Lake; S. W. Harbor; Salisbury Cove, June 17–Aug. 11.

L. PRISMATICUS (Nort.). S. W. Harbor, July 31. Parasitic on *Archips cerassivora*na.

ATROMETUS Förster

A. CLAVIPES (Davis). Great Heath. Reared gelechid webber on *Myrica gale*.

THERION Curtis

T. CIRCUMFLEXUM (Linn.). Echo Lake; Salisbury Cove, June 17–Aug. 11.

T. FUSCIPENNE (Nort.). Duck Brook, June 30.

T. MORIO (Fab.). Record of capture lost.

OPHION Fabricius

- O. BIFOVEOLATUS Brullé. Narrows; Bar Harbor, June 9-17.
O. BILINEATUS Say. Bar Harbor; Salisbury Cove, July 25-
Aug. 16. Parasitic on *Feltia* and other moths.
O. sp. Bred from Noctuid larva, Aug. 25 (Br.).

ENICOSPILUS Stephens

- E. ARCUATUS (Felt.). N. E. Harbor, Aug. 23 (Minot).
E. PURGATUS (Say). Echo Lake, July 12. Parasitic on *Feltia*
and other moths.

THYREODON Brullé

- T. ATRICOLOR ATRICOLOR (Oliv.). Pars. on larvae of some of
the *Spingidae*.

CIDAPHUS Förster

- C. OCCIDENTALIS Cush. Reared from spruce duff (Br.). May
C. PANISCOIDES (Ashm.). Mt. Desert, Sept. 23.

MESOCHORUS Gravenhorst

- M. ATRIVENTRIS Cress. S. W. Harbor; Bar Harbor, July 30-
Aug. 10.
M. HAMMATUS Townes. Bar Harbor; Long Pond; Seal Cove,
June 13-Sept. 8.
M. JUCUNDUS Prov. June 4 (Br.).
M. LUTEIPES Cress. Eagle Lake; Bar Harbor, July 18-Aug.
18.
M. sp. Bred from a lepidopterus alder leaf-miner, June 6
(Br.).
M. n.sp. Bred from *P. nemorata*, June 28 (Br.).
M. n.sp. Mt. Desert, July 8 (Br.). In U.S.N.M.
M. sp. At light, Oct. 1.

ORTHOPELMA Taschenberg

- O. OVALE (Prov.). June 2 (Br.).

TRIGONALIDAE

LYCOGASTER Shuckard

L. COSTALIS Cress. Duck Brook, July 30, 1919.

AULACIDAE

ODONTAULACUS Kieffer

O. ABDOMINALIS Cress. Bar Harbor; S. W. Harbor, June 13-
July 29.

GASTERUPTHIDAE

The members of this family are parasitic on bees.

GASTERUPTION Latreille

G. MONTANUM var. INCERTUM Cress. S. W. Harbor; Bar
Harbor; Salisbury Cove, July 10-29.

G. TARSATORIUM Say. S. W. Harbor, July 28.

DIAPRIIDAE

PARAMESIUS Westwood

P. sp. Narrows, Aug. 13.

ASHMEADOPRIA Kieffer

A. sp. Narrows, July 27.

LEPTORHAPTUS Förster

L. sp. Long Pond, July 10.

CINETUS Jurine

C. n.sp. Bar Harbor, Aug. 18.

C. sp. Bar Harbor, Aug. 18.

PANTOCLIS Förster

P. CRASSICORNIS Ashm. S. W. Harbor, July 13.

XENOTOMA Förster

X. sp. Pars. on *P. nemorata*, June (Br.).

CALLICERATIDAE

APHANOGAMUS Thomson

A. n.sp. Bred from *Arbor vitae* leaf-miner, July 19 (Br.).

MEGASPILUS Westwood

M. FUSCIPENNIS Ashm. Bar Harbor, Apr. 28 (Br.).

SERPHIDAE

SERPHUS Schrank (*Proctotrupes* Latreille)

S. sp. Bar Harbor, Aug. 18.

S. sp. S. W. Harbor; Bar Harbor, June 13-24.

PLATYGASTERIDAE

PLATYGASTER Latreille

P. sp. Pars. on diptera, June 5 (Br.).

PELECINIDAE

PELECINUS Latreille

P. POLYTURATOR Drury. The females are very common in August, flying over lawns and ovipositing on the larva of the June beetle (*Phyllophaga*). Taken as late as Oct. 3. The males of this species are supposed to be very rare. One was collected in 1921 and three in 1922 at N. E. Harbor by A. R. Allen. On September 2 and again on the 7th, '33 we had a very strong south wind blowing downward. Several were seen flying around the laboratory, and I took seven. Dr. Brower, at the same dates, took them in Bar Harbor. Can it be that the males fly at a higher level and are not as rare as is supposed?

CYNIPIDAE. The Gall Wasps

The members of this family are producers of galls.

IBALIA Latreille

I. MACULIPENNIS Hald.? Bred from a maple log infested with *Tremex columba*, July.

I. ENSIGER Norton. Pars. Siricid, July 3 (Br.). Ex larch.

ANACHARIS Dalman

A. sp. Pars. on the "lace wings," July 8.

CALLASPIDIA Dahlbom

C. PROVANCHERI Ashm. S. W. Harbor, July 30.

ANDRICUS Hartig

A. SINGULARIS (Bass.). "Small oak apple gall." Bar Harbor; Salisbury Cove, Aug. On leaves of the red oak.

CALLIRHYTIS Förster

C. OPERATOR (O. S.) Acorn gall. Robinson Mt., Sept. 7. The gall is an oval larval cell between the nut and cup of the acorn. On the scrub oak (*Quercus ilicifolia*). The agamic generation.

C. SCITULUA Bass. Salisbury Cove; Bar Harbor. Irregular wood terminal swellings on the red oak (*Quercus rubra*).

C. TUBEROSUA Bass. Robinson Mt. Irregular wood galls on the scrub oak.

C. TUMIFICA O. S. Midrib tumor gall on oak. Common. Salisbury Cove X Emery Dist.

AMPHIBOLIPS Reinhard

A. INANIS (O. S.). Empty oak gall. Bar Harbor, Aug. 6. On the leaves of the red oak. Bred from *Quercus borealis* July.

DIASTROPHUS Hartig

D. TURGIDUS Bass. Forms a gall on raspberry. Bred May 23 (Br.).

AYLAX Hartig

A. GLECHOMAE (Linn.). Cat-mint Gall. A globular gall on *Nepeta glechoma*. Great Head, Aug. '35.

Genus near the above. Bred from a gall on a herbaceous plant, July 5.

GONASPIS Ashmead

G. POTENTILLAE (Bass.). Section 40 sweeping June 19. The Cinquefoil Axil Gall.

RHODITES Hartig

The members of this genus produce galls on roses.

R. BICOLOR (Harr.). Spiny rose gall. Bar Harbor; Salisbury Cove, July-Aug.

R. NEBULOSUS Bass. General distribution on various roses.

R. ROSAE (Linn.). Bred from *Polythalmous* hairy rose gall Mch. (Br.).

PERICLISTUS Förster

Members of this genus have been reared from galls on roses.

P. sp. Guests in an undeterminable over-wintered gall.

CEROPTRES Hartig

C. sp. Inquilines in gall on oak.

CALLIMOMIDAE (*Torymidae*)CALLIMOME Spinola (*Torymus* Dalm.)

C. SACKENI Ashm. S. W. Harbor, July 11-30.

C. CHRYSOCHLORA O. S. Bred from *Cynipid* woody rose gall, May.

C. COCCINEUM Huber. Bred June 24 (Br.).

C. sp. Echo Lake, July 17.

C. sp. Cross Road Sal. Cove sweeping, Sept. 4.

MONODONTOMERUS Westwood

M. DENTIPES Boh. Pars. on *Diprion simile*? Bred June 23 (Br.).

M. INDISCRETUS Gahan. Type locality Bar Harbor. Proc. U.S.N.M. Vol. No. 3116 (1941) pp. 461, 462. See pp. 469-470). In U.S.N.M.

ORMYRUS Westwood

O. QUERCI-PILULAE Fitch. Reared ex conical stem gall *Quercus borealis*. July 5.

O. sp. Bred from an oak gall June 13 (Br.).

SYNTOMASPIS Förster

S. sp. S. W. Harbor, Aug. 23.

CRYPTOPRISTUS Förster

C. sp. Bar Harbor, Aug. 10.

PERILAMPIDAE

PERILAMPUS Latreille

P. CHRYSOPAE Cwfd. Bred from what appears to be a *Chryso-
pid* cocoon July 3 (Br.).

P. FULVICORNIS Ashm. S. W. Harbor, July 11; Northeast
Branch, July 25.

P. HYALINUS Say. Penikese, July 24–Aug. 8.

P. STYGICUS Prov. Bar Harbor; Green Mt., July 17–Aug. 16.

P. sp. Bar Harbor; Green Mt., June 16–Aug. 10.

P. sp. On birch leaf, Sept. 14 (Br.).

EUPERILAMPUS Walker

E. TRIANGULARIS (Say). Mt. Desert, July 4 (Br.).

CHALCIDIDAE

BRACHYMERIA Westwood (*Chalcis* auct.)

B. COMPSILURAE (Crawf.). Long Pond, July 16.

B. FLEBILIS Cress. Narrows; mouth, Northeast Creek; July
25–Aug. 13.

CHALSIS Fabricius

C. OVATA Say. Penikese, Sept. 5.

SPILOCHALCIS Thomson

S. ALBIFRONS (Walsh). Bred from *Exema dispar* Sept. (Br.).
Pars. on *Arbor vitae* leaf-miner.

S. SIDE (Walk.). Pars. on *Coleophora salmani* July 17
(Br.). Penikese; Witch Hole Pond; S. W. Harbor, July 19–
Sept. 6.

S. sp. Tremont, Aug. 23.

LEUCOSPIS Fabricius

L. AFFINIS Say. Eden; Bar Harbor; S. W. Harbor; Station F264, all July.

EURYTOMIDAE

EURYTOMA Illiger

E. GIGANTEA Walsh. Bred from *Eurosta solidaginis* July 1 (Br.).

E.sp. Bred from gall on *Quercus borealis* July 10 (Br.).

E. sp. S. W. Harbor, July 13.

E. n.sp. Reared ex *Populus tremuloides* (Br.). June 16, '38.

HARMOLITA Motschulsky

H. sp. Pars. lep. on spruce terminals, July 30.

ENCYRTIDAE

PENTACNEMUS Howard

P. BUCCULATRICIS How. Bred from Arbor vitae leaf-miner July 4 (Br.) det. A. B. G.

COPIDOSOMA Ratzeburg

C. NANELLAE Silv. Bred from Arbor vitae leaf-miners July 20 (Br.). Pars. on *Paralachia pini foliella*.

ENCYRTUS Latreille

E. MARILANDICUS Gir. Station F343.

EUELMIDAE

EUELMELLA Masi

E. VESICULARIS (Retzius). Great Heath; Witches Hole; Bar Harbor, Sept. 12-25. Bred from Arbor vitae leaf-miner.

MICROGASTERIDAE

HABRITYS Thomson

H.sp. S. W. Harbor, July 13.

LAMPROTATUS Westwood

L. sp. Long Pond; S. W. Harbor, July 16–Aug. 14.

PIRENINAE

P. n. gen. sp. pars. Microlep, in white spruce terminals, July '38. In U.S.N.M.

PTEROMALIDAE

NEOCATOLACCUS Ashmead

N. sp. Bar Harbor, Sept. 9.

BELONURA Ashmead

B. SINGULARIS Ashm. Narrows, Aug. 13.

HABROCYTUS Thomson

H. sp. Pars. on *Coleophora salmani* July 8 (Br.).

H. sp. Bred from *Apatela* sp. June 2 (Br.).

PTEROMALUS Swederus

P. PUPARUM Linn. Bred from *C. salmani* Aug. 6 (Br.).

PSILONOTUS Walker

P. sp. det. A. B. Gahan, 1938. Par. of *Mycloborus ramiperdi*. Bar Harbor (Br.).

RHOPALICUS Förster

R. PULCHRIENNIS Cwfd. det. A. B. Gahan, 1934. Par. *Pisodes strobi*. Bar Harbor, July 30, 1933 (Br.).

CECIDOSTIBA Thomson

C. sp. det. A. B. Gahan, 1938. Par. of *Mycloborus ramiperdi*. Bar Harbor, Aug. 2, 1933 (Br.).

AMBLYMERUS Walker

A. VEREITOR Nort. Reared ex. spruce tips. In U.S.N.M.

A. sp. Bred from *Mycloborus ramiperdi* Aug. 2 (Br.).

EURYDINOTA Förster

E. LIVIDICORPUS Gir. det. R. A. Cushman, Jan. 15, 1932. Bar Harbor, July 20, 24, 29, Aug. 12, 21. Pars. *Coleophora salmini*.

PIAENACRA Förster

P. sp. Reared from spruce tips. In U.S.N.M.

HYPSICAMARA Förster

H. LACHNI Ashm. Reared pars. lep. on spruce terminals July 30 (Br.). These associate with aphids.

EUNOTUS Walker

E. AMERICANUS Gir. "Mt. Desert," July 30 (McAtee).

CLEONYMIDAE

TRIGONODERUS Westwood

T. sp. Bar Harbor, Aug. 18.

EULOPHIDAE

CHRYSOCHARIS Foerster

- C. sp. Bred from oak leaf-miner July 8 (Br.).
C. sp. Bred from *Lithocolletis salicifoliella* Aug. 2 (Br.).
C. n.sp. Bred from Arbor vitae leaf-miners Sept. 16-Oct. 16 (Br.).

PHYSCUS Howard

P. VARICORNIS How. det. C. F. W. M. 1933. Mt. Desert Isl., July 9, 1932. Pars. *Chionaspis pinifoliae*.

CIRROSPILUS Westwood

- C. FLAVICINCTUS Riley. Bred from *Phyllotoma nemorata* Sept. (Br.).
C. CINCTITHORAX Gir. Pars. on *Phyllocnistis populiella*, *Phyllonorycter tremuloidiella*, *Phyllotoma nemorata*, *Bucculatrix canadensisella*, etc. All summer.

CLOSTEROCERUS Westwood

C. TRICINCTUS (Ashm.). Pars. on *Phyllocnistis populiella*, *Phyllonorycter tremuloidiella*, July-Aug. (Br.).

DEROSTENUS Westwood

D. n.sp. Pars. on Arbor vitae leaf-miners, *P. nemorata*, etc.

NEODEROSTENUS Girault

N. BIPUNCTATUS Gir. det. A. B. Gahan, 1938. Pars. of *Phyllonorycter tremuloidiella*. Bar Harbor, July 25, 1933.

PENTACNEMUS Howard

P. BUCCULATRICIS How. det. A. B. Gahan, 1934. Bar Harbor, July 4, 1933; July 7, 1933. Ex. Arbor vitae leaf-miner (Br.).

ENTEDON Dalman

E. n.sp. Pars. on sawfly (Br.).

PLEUROTROPIS Foerster

P. BUCCULATRICIS Gahan. Bred from *P. populiella* Sept. (Br.).

P. LITHOCOLLETIDIS (Ashm.). Bred from Arbor vitae leaf-miners July 17 (Br.). Pars. on *P. populiella*.

P. LONGFELLOWI Gir. Bred from *Cameraria aceriella* June 28 (Br.).

P. sp. S. W. Harbor, July 13.

P. sp. Pars. on Col? on *Viburnum cassinoides* Aug. 6 (Br.).

HEMADUS

H. NUBILIPENNIS (Ashm.). Record of capture lost.

SECODELLA Girault

S. CUSHMANI (Cwfd.). Bred from Arbor vitae leaf-miner July 24 (Br.).

SYMPIESIS Förster

S. AGROMYZAE Gahan. Reared from serpentine miner of *Impatiens* Aug. 12 (Br.).

S. BIMACULATUS (Cwfd.). Green Mt.; Salisbury Cove, July 17-Aug. 21.

- S. DOLICHOGASTER Ashm. Parasitic on *Gracilaria fraxinella*. Bred July 26 (Br.).
- S. LEXINGTONENSIS Gir. Pars. on the blotch miner of beech. July 21-31 (Br.).
- S. MACULIPES (Cwfd.). Reared ex *Lithocolletis hamamelii*.
- S. METACOMET (Cwfd.). Pars. *Cameraria aceriella*. In U.S.N.M.
- S. NIGRIFEMORA Ashm. S. W. Harbor, July 11.
- S. NIGRIPES Ashm. Reared from blotch miner on *Amelanchier* Aug. 8 (Br.).
- S. REX Gir. Reared from blotch miner on willow, Sept. 16 (Br.).
- S. n.sp. Reared from *Myeloborus ramiperda* mining twigs of *Pinus strobus* Aug. (Br.).
- S. n.sp. Reared from gray birch, Aug. 7 (Br.).
- S. sp. Bar Harbor. Pars. *Brachys* on willow. In U.S.N.M.

MICROPLECTRON Foerster

- M. FUSCIPENNIS (Zett.). A species introduced into Eastern Canada. Bred from *D. polytomum*. Common.

TETRASTICHUS Haliday

- T. CHLAMYTIS Ashm. Pars. *Exema dispar*. In U.S.N.M.
- T. sp. Reared from gall on aster, Aug. In U.S.N.M.
- T. sp. Reared from gall on *Populus tremuloides*.

CIRROSPILOIDEUS Ashmead

- C. JOHNSONI Gir. Narrows, June 24.

EUPLECTRUS Westwood

- E. BICOLOR Swed. Bred from a green Noctuid on grass, July 19 (Br.).
- E. sp. S. W. Harbor, July 11.

RHICNOPELTOIDEA Girault

R. AMSTERDAMENSIS Gir. Ex. *Lithocolletis corylisella* (Br.).

HORISMENUS Walker

H. MICROGASTER Ashm. Pars. on *P. populiella*.

H. LIXIVORUS Cwfd. Same as above.

ZAGRAMMOSOMA Ashmead

Z. NIGROLINEATA Cwfd. Bred from Arbor vitae leaf-miner (Br.).

DICLADOCERUS Westwood

D. n.sp. Reared (Br.) ex Microlep. in white spruce terminals. In U.S.N.M. EULOPHILUS in a syn. fide Dalla Torre.

TRICHOGRAMMATIDAE

TRICHOGRAMMA Westwood

T. MINUTUM (Riley). Pars. on eggs of *Pteronidea populi* Sept. Also on *P. nemorata* July–Sept.

MYMARIDAE

ALAPTUS Haliday

A. CAECILII Girault. Bred July 31 (Br.).

PSAMMOCHARIDAE. The Spider-hunting Wasps

AGENIELLA Banks

A. IRIDIPENNIS (Cress.). Bar Harbor, July 21.

A. CALCARATA (Cress.). Salisbury Cove, July 15–Aug. 11.

A. sp. Station F337. In U.S.N.M.

PSEUDAGENIA Kohl

P. NANELLA Banks. N. E. Harbor, July 28 (Minot).

P. VARITARSATA Banks. N. E. Harbor; Salisbury Cove, July 8–26.

DIPOGON Fox

- D. CALIPTERUS (Say). Carrying a spider on dead spruce,
Sept. 28 (Br.); Eagle Lake, July 18.

PRIOCNEMIS Schiodte

- P. ALIENATUS (Smith). S. W. Harbor, July 28.
P. GERMANUS (Cress.). Bar Harbor; Green Mt., Aug. 16-17.

PSAMMOCHARES Latreille

- P. ASTUR Banks. S. W. Harbor; Bar Harbor; Salisbury Cove,
July 15-24.
P. LASIOPE Banks. Bar Harbor; S. W. Harbor, July 26-
Sept. 11.
P. PRETIOSA Banks. S. W. Harbor; Green Mt.; Bar Harbor,
July 15-29.
P. (POMPILINUS) AMERICANUS (Beauv.). Common July 17-
29.
P. (POMPILINUS) CANADENSIS Banks. S. W. Harbor; Bar Har-
bor; Narrows, July 20-Aug. 13.
P. (INOLENS) Banks. S. W. Harbor, July 11-20.
P. (MARGINATUS) (Say). Green Mt., July 15.

ANOPLOCHARES Banks

- A. RECTUS (Banks). Green Mt.; Echo Lake, July 17.

ANOPIUS Dufour

- A. VENTRALIS Banks. Long Pond, July 16.
A. VIRGINIENSIS Cress. Narrows; Salisbury Cove, July 14-
Aug. 13.

ANOPIELLA Banks

- A. TENEBROSUS (Cress.). Green Mt.; Narrows; S. W. Har-
bor; Bar Harbor, June 18-Aug. 3.

SOPHROPOMPIUS Ashmead

- S. HYACINTHINUS (Cress.). S. W. Harbor, July 10-29.

EPISYRON Schiodte

- E. BIGUTTATUS (Fab.). Bar Harbor; Salisbury Cove; N. E. Harbor; Station F133, July 15–Aug. 21. It provisions its nest with spiders (*Epeira*).
- E. QUINQUENOTATUS (Say). S. W. Harbor; Salisbury Cove, July 15–28. It provisions its nest with spiders (*Epeira*).

CEROPALES Latreille

- C. FRATERNA Smith. Eden; Green Mt., July 23–25. The species of the genus are parasitic in the nests of other genera of the family.

CHRYSIDIDAE. The Gold or Cuckoo Wasps

The members of this family live as social parasites in the nests of the solitary wasps and bees.

ELAMPUS Spinola

- E. MARGINATUS (Patton). Penikese July 13, Station F261.

OMALUS Jurine

- O. LAEVIVENTRIS Cress. S. W. Harbor; Salisbury Cove; Bar Harbor, June 16–July 13.
- O. IRIDESCENS Nort. Has been recorded as the parasite of the *Stigmus* and of *Chrysis nitidula*. Echo Lake; Bar Harbor, July 16–24.
- O. SINUOSUS (Say). Station F381.

HOLOPYGA Dahlbom

- H. ASPERA Brullé. Eden, July 24; Station F69.
- H. VENTRALIS (Say). Indian Point on flowers of wild fennel, Station F260.

HEDYCRIDIUM Perrin

- H. DIMIDIATUM (Say). Eden; S. W. Harbor; Chasm Brook, July 23–29.

HEDYCRUM Latreille

- H. VIOLACEUM Brull. Bar Harbor, July 22.
H. sp. Penikese on ground near holes Aug. 5.

CHRYSIDAE Bisehoff

- C. VERICALLIS (Patton). S. W. Harbor, June 21.

CHRYSIS Linnaeus

- C. (CHRYSOGONA) ATRIVENTA Taylor. Green Mt., July 25.
C. (CHRYSOGONA) PERPULCHRA Cress. One specimen taken at Section 28, July 20, 1937.
C. (CHRYSIS) COERULANS Fab. Bar Harbor; Corfield, June 16-Sept. 9.
C. (CHRYSIS) NITIDULA Fab. Eden; Corfield, July 24-Sept. 6.
C. (CHRYSIS) NITIDULA var. CESSATA du Busson. S. W. Harbor; Eden; Corfield, June 15-Sept. 23.
C. (CHRYSIS) PELLUCIDULA Aaron. S. W. Harbor, July 24.
C. (CHRYSIS) PROVANCHERI Schulz. Bar Harbor, July 10.
C. (CHRYSIS) SUCCINCTA Linn. One specimen Gt. Heath (Br.). Aug. 4, 1935.
C. (CHRYSIS) sp. Station F259.
C. (CHRYSIS) sp. Station F260.
C. (CHRYSIS) sp. Laboratory June 26.

TIPHIDAE

TIPHIA Fabricius

- T. INORNATA Say. Eden on cord wood, July 2; sweeping July 23. Scarce. The larvae live on white grubs (*Phyllophaga*).
T. MICROPUNCTATA Allen. Middle Rd. on *Apocynum*, July 25.

MYRMOSA Latreille

- M. UNICOLOR Say. Eden, Aug. 11.

MUTILLIDAE

PSEUDOMETHOCA Ashmead

- P. FRIGIDA Smith. Record of capture lost.

FORMICIDAE. The Ants

PONERA Latreille

- P. COARCTATA PENNSYLVANICA* Buck. Bar Harbor; Tremont, Aug. 29–Sept. 4 (Br.).

CREMASTOGASTER Lund

- C. LINEOLATA* (Say). Robinson Mt., Sept. 7. On sap from gall-infested acorns of the scrub oak; Cadillac Cliffs and Eden, Sept. 11 and 12. Males and females swarming Robinson Mt., Aug. 24. Sec. 15, Oct. 4.

STENAMMA Westwood

- S. BREVICORNE* (Mayr.). This is a rare ant nesting under stones in moss humus. A swarm of males were flying along the edge of a plantation of *Pinus banksiana* on Dikes Peak Oct. 2, '34 and specimens taken by (Br.).

MYRMICA Latreille

- M. BREVINODIS* Emery. Hodgdon Brook, Aug. 12; Station F181, Sept. 3.
M. SABULETI AMERICANA Weber. Mt. Desert (McAtee).
M. SCABRINODIS var. *FRACTICORNIS* Emery. S. W. Harbor; Green Mt., Long Pond, July 11–Aug. 22.
M. SCABRINODIS var. *SABULETI* Mein. "Mt. Desert," July 30 (McAtee).
M. SCABRINODIS Nyl. var. *DETRINODIS* Emery. Station F173 and on the Eden-Town Hill road, Aug. 2–7.
M. SCABRINODIS SCHENCKI EMERYANA Forel. S. W. Harbor; Witch Hole Pond, Sept. 6–11; swarming on Robinson Mt., Sept. 2, '35.
M. sp. Section 26, Aug. 7.
M. sp. Section 15, sweeping, Sept. 6 .

LEPTOTHORAX Mayr

- L. ACERVORUM CANADENSIS* Prov. S. W. Harbor, July 11.
L. CURVISPINOSUS AMBIGUUS Emery. "Mt. Desert," July 30 (McAtee).

TAPINOMA Förster

T. SESSILE (Say). S. W. Harbor, July 11–Sept. 6; Station F173.

DOLICHODERUS Lund

D. (HYPOCLINEA) PLAGIATUS Mayr. Section 26, Aug. 7.

D. (HYPOCLINEA) TASCHENBERGI Mayr. Robinson Mt., Aug. 24.

D. PLAGIATUS Mayr. var. S. W. Harbor, Sept. 6.

D. PLAGIATUS var. INORNATUS Wheeler. Breakneck Pond, Sept. 8.

LASIUS Fabricius

L. (ACANTHOMYOPS) CLAVIGER Roger. Deer Brook, Station F218, one individual taken.

L. (ACANTHOMOPS) INTERJECTUS Mayr. Corfield, July 21. Scarce.

L. NIGER ALIENUS AMERICANUS Emery. Under a barn Sept. 13. Stations F150 and F173.

L. NIGER var. NEONIGER Emery. Corfield at melon bait. Said to be the most abundant ant and hence of all insects.

L. NIGER var. SITKAENSIS Pergande. Long Pond; Bar Harbor; Corfield, June 27–Sept. 15.

L. (CHTHONOLASIUS) UMBRATUS MIXTUS APHIDICOLA (Walsh). S. W. Harbor; Green Mt., July 15–25; Pretty Marsh under stone, Aug. 21. Washed up on the shore of Bubble Pond in large masses, Sept. 7, '35.

L. (CHTHONOLASIUS) UMBRATUS SUBUMBRATUS Viereck. One specimen taken July 11, '29.

FORMICA Linnaeus

F. FUSCA Linn. Common, June–Sept. This species makes large mounds. Near the foot of Western Mt. was a mound that measured 7×11 feet, with an average height of 2 feet. They spread very rapidly by forming small colonies.

F. FUSCA var. ALGIDA Wheeler. One specimen was swept on the top of Robinson Mt., Aug. 24, '34.

- F. FUSCA* var. *SUBSERICEA* Say. Around stones, New Mill Pond, July 12; flying at Jordan Pond, Aug. 12; swarming in large numbers, Seal Cove, Aug. 7.
- F. NEOGAGATES* Emery. S. W. Harbor; Bar Harbor, July 14–Sept. 6.
- F. OBSCURIVENTRIS* Mayr. One female taken but record of capture lost. Scarce.
- F. RUFA INTEGRATA* Nyl. Eden, Aug. 9; Corfield, July 25. S. W. Harbor in mound nest Aug. 31. Forms large colonies in stone piles.
- F. SANGUINEA ASERVA* Forel. Bar Harbor; S. W. Harbor; Green Mt.; Section 26, June 21–Aug. 7.

CAMPONOTUS Mayr

- C. (MYRMENTOMA) CARYAE* (Fitch). One specimen taken on Robinson Mt., Aug. 24, '34.
- C. HERCULEANUS LIGNIPERDUS* var. *NOVABORACENSIS* (Fitch). Common, June to Sept. Frequents old logs and stumps. Same habits as below.
- C. HERCULEANUS PENNSYLVANICUS* (DeG.). The Carpenter Ant. Common. Nesting in old logs and stumps, it frequently migrates to farmhouses and becomes a pest both by riddling the woodwork and by visiting the kitchen for sweets. This craze for "parking" our woods by removing all logs, etc., is driving them into buildings.
- C. HERCULEANUS* var. *WHYMPERI* Forel. Bar Harbor; Narrows; Section 15 in log, June 16–Aug. 13.
- C. sp.* One female. Mt. Desert (Br.) Apr. 9.

BETHYLIDAE

BETHYLUS Latreille

- B. sp.* Bar Harbor, July 6 (Br.).
- B. n.sp.* Gt. Heath, Sept. 25 (Br.).

CEPHALONOMIA Westwood

- C. sp.* Gt. Heath, Sept. 25. One in U.S.N.M.
- C. n. sp.* Bar Harbor, July 20. In U.S.N.M.

PSEUDISOBRACHIUM Kieff

This is *Isobrachium* Ashm, nec. Först.

P. sp. Mt. Desert, Sept. 10 (Br.).

VESPIDAE. The Social Wasps

EUMENES Latreille. The Potter Wasps

E. FRATERNA Say. Stations F133 and F259. Scarce.

E. GLOBULOSA Sauss. Common, June 16–July 25.

ANCISTROCERUS Wesmael

A. CATSKILL var. ALBOPHALERATUS Sauss. Bar Harbor; Green Mt., July 18–25.

A. ANTILOPE (Panz.). Bar Harbor; N. E. Harbor; S. W. Harbor, July 20–Aug. 22.

A. CATSKILL (Sauss.). Narrows (Salman), July 21.

A. TIGRIS (Sauss.). Bar Harbor; S. W. Harbor; Long Pond, Aug. 18–Sept. 7. Station F159. Section 16, Aug. 7.

A. UNIFASCIATUS (Sauss.). Salisbury Cove, Aug. 11.

A. WALDENII (Vier.). Bar Harbor; Green Mt., June 7–July 25.

SYMMORPHUS Wesmael

S. ALBOMARGINATUS (Sauss.). Bar Harbor, Aug. 16.

S. CANADENSIS (Sauss.). Witch Hole Pond, July 30.

S. CRISTATUS Sauss. Bar Harbor, July 24.

ODYNERUS Latreille

O. KENNICOTIANUS Sauss. Bar Harbor, July 27.

O. (RYGCHIUM) LEUCOMELAS Sauss. S. W. Harbor; Salisbury Cove, July 10–17.

VESPULA Thomson

V. (DOLICHOVESPULA) ADULTERINA (Buyss.) var. ARTICA Rohwer. Northern hornet. Echo Lake; N. E. Harbor; Bar Harbor; Green Mt., July 12–29.

- V. (*DOLICHOVESPULA*) *ARENARIA* (Fabr.) (= *DIABOLICA* (Sauss.)). Yellow-jacket. Common, June 21–Sept. 6.
- V. (*DOLICHOVESPULA*) *MACULATA* (L.). White-faced hornet. S. W. Harbor, July 10, Sept. 6.
- V. (V.) *AUSTRIACA* (Panz.). Bar Harbor, Aug. 16.
- V. (V.) *MACULIFRONS* (Buy.). Another Yellow Jacket.
- V. (*DOLICHOVESPULA*) *NORVEGICA* (Fabr.) var. *NORVEGICOIDES* (Sladen). Bar Harbor, June 23; S. W. Harbor, Aug. 21.
- V. (V.) *RUFA* (L.) var. *ACADICA* (Sladen). N. E. Harbor, Aug. 11.
- V. (V.) *RUFA* (L.) var. *CONSOBRINA* (Sauss.). Small white-faced hornet. Common, June 20–Sept. 6. Builds its nest under ground and under boards, etc.
- V. (V.) *VULGARIS* (L.) (= *COMMUNIS* (Sauss.)). Yellow-jacket. N. E. Harbor; Bar Harbor, June 30–July 21. Nests below ground. Feeds heavily on aphids at Corfield.

SPHECIDAE

ASTATA Latreille

- A. (ASTATA) *LEUTHSTROMI* Ashm. Eden, July 24.
- A. (ASTATA) *UNICOLOR* Say. Eden, July 23.

LARROPSIS Patton

- L. *DISTINCTA* Smith. Bar Harbor; Eden; S. W. Harbor, July 19–29. Most of the members of genus burrow in sand and provision their nests with Orthoptera.

CHLORION Latreille

- C. (*AMMOBIA*) *ICHNEUMONEUM* (Linn.). S. W. Harbor on *Solidago*, Aug. (Fernald).
- C. *PRIONYX ATRATUM* (Lep.). Conner's Point, Aug. (Fernald).

PODALONIA Spinola

- P. *VIOLACEIPENNIS* LePel. Eden; Green Mt.; S. W. Harbor, July 11–25.
- P. *LUCTUOSA* (Sm.). Conner's Point, Aug. (Fernald).

SPHEX Linnaeus

One of the most interesting Genera of insects, some of which use a pebble to pound down the soil on their burrows, which they provision with caterpillars.

S. ARVENSIS Dahlb. Common, June 11–Aug. 23. All of the species in this genus build in bare ground and provision with spiders. They are one of our most interesting groups.

S. AUREONOTATUS (Cam.). Fernald's Point on *Salidago* Aug. (Fernald).

S. NIGRICANS (Dahlb.). Several flying low over grass, Penikese, July 21.

S. PROCERUS (Dahlb.). Commer's Point on *Solidago* Aug. (Fernald).

S. sp. Mating pair. Middle Road, July.

SCELIPHRON Klug

S. CAEMENTARIUM Drury. Black and Yellow Mud-dauber. Salisbury Cove, July 24. These are the well-known mud-daubers which make nests in sheds, etc., and provision them with spiders.

CHALYBION Dahlbom

C. CALIFORNICUM (SAUSSURE). Blue Mud-dauber. Bar Harbor, July 24. It stores its nest with spiders, usually species of *Epeira*.

ALYSSON Panzer

A. OPPOSITUS Say. Eden; Bar Harbor, July 19–Aug. 5.

NYSSON Latreille

N. LATERALIS Pack. Eden, July 23–25.

ARGOGORYTES Ashmead

A. (ARCHARPACTUS) NIGRIFRONS (Smith). Bar Harbor. One taken July 28, '36.

GORYTES Latreille (Not auct.)

- G. (GORYTES) ATRICORNIS Pack. S. W. Harbor; Salisbury Cove; Bar Harbor, July 15-24. This genus is a soil nester that uses leaf-hoppers to provision.
- G. (PSEUDOPLISUS) PHALERATUS Say. These wasps nest in sand and provision their nests with leaf-hoppers. In a sand bank at Eden, July 24.
- G. (GORYTES) SIMILLIMUS Smith. Eden; S. W. Harbor; Bar Harbor, July 17-Aug. 20.

BEMBIX Fabricius

- B. SPINOLAE Lep. The Bembex nest in colonies in the sand and lay their egg on a paralyzed fly. They do not store food but feed their larvae from day to day on flies. Sand pit, Eden; Indian Point, the Feather Bed, Green Mt. 1000 ft., July 28-Aug. 21. A striking creature with its large green eyes and black and white striped body.

PHILANTHUS Fabricius

- P. BILUNATUS Cress. Penikese on flowers July 27.

APHILANTHOPS Patton

- A. FRIGIDA (Smith). Sand pit on Sargent Drive, Aug. 21. Eden, July 23. This species makes its nest in the ground and provisions it with queen-ants.

CERCERIS Latreille

- C. ARELATE Banks. Newport Meadow flying, Sept. 4. Not common. The provisioning of this genus is done with beetles.
- C. sp. Mt. Desert, Sept. 1.
- C. CLYPEATA Dahlb. S. W. Harbor; Eden; Bar Harbor, July 20-24. These burrow and store beetles.
- C. DENTIFRONS Cress. Eden, July 18-24. Same as above.

TRYPOXYLON Latreille

T. FRIGIDUM Smith. Common, July 17–Sept. 6. The species of this genus vary in their nest building but provision them with spiders.

T. PENNSYLVANICUM Sauss. Mt. Desert (Br.), June 21.

PSEN Latreille

P. (MIMESA) BASIRUFUS (Pack.). Echo Lake; S. W. Harbor; N. E. Harbor, July 6–18.

P. (MIMESA) PAUPER (Pack.). Bar Harbor, Aug. 16.

STIGMUS Panzer

S. AMERICANUS Pack. Bar Harbor; Echo Lake, June 15–17. Bar Harbor; Echo Lake, June 15–17. They make their nest in the pith of dry branches of sumac, provisioning it with aphids.

PEMPHREDON Latreille

P. (PEMPHREDON) ANGULARIS FOX. Bar Harbor and N. E. Harbor the first part of July. These also provision with aphids. They build in decaying wood.

P. (PEMPHREDON) PROVANCHERI Ashm. Laboratory Aug. 25. Scarce. Use decaying wood and provision with aphids.

P. (CEMONUS) INORNATUS Say. Upper Hadlock Pond; Bar Harbor, June 10–21.

PASSALOECUS Shuckard

P. MANDIBULARIS (Crses.). Bar Harbor; S. W. Harbor, June 17–July 29. These use old galleries in wood in which they put clay cells provisioned with aphids.

EUPLILIS Risso

E. (EUPLILIS) CLAVIPES (Linn.). Bar Harbor, July 8. A new record for Maine.

E. (CORYNOPUS) COARCTATA (Scop.). Mt. Desert, Aug. 6 (Br.).

E. (CORYNOPUS) RUFIGASTER (Pack.). Laboratory, Aug. 5.

PEMPHILIS Risso

- P. (PEMPHILIS) MONTICOLA Pack. Eden, July 28; Salisbury Cove, July 28 (Pate).

CROSSOCERUS LePeletier and Brullé

- C. (BLEPHARIPUS) WICKHAMII (Ashm.). Narrows; Echo Lake, June 27–Aug. 13; Bar Harbor, July 17 (Pate). All of this genus make burrows in the ground, stalks, wood, etc. Flies are the favorite insect for provisioning.
- C. (BLEPHARIPUS) NIGRICORNIS Prov. Mt. Desert, June 12 (Br.).
- C. (STICTOPTILA) MACULIPENNIS (Sm.). Echo Lake; N. W. Harbor, July 12–Aug. 10; S. W. Harbor, June 20 (Pate).
- C. (BLEPHARIPUS) TARSALIS (Fox). S. W. Harbor, July 21 (Pate).

ECTEMNIUS Dahlbom

- E. (CLYTOCHRYsus) COMPTUS (LePel. & Br.). Bar Harbor, July 28–Sept. 10.
- E. (CLYTOCHRYsus) NIGRIFRONS (Cress.). Mt. Desert, July 14; Salisbury Cove, July 24 (Pate).
- E. (LOPHOCRABRO) SINGULARIS (Sm.). Stations F133 and F263; Bar Harbor, July 19 (Pate); nurseries and various places, July 15–Aug. 15.
- E. (HYPOCRABRO) CHRYSARGYRUS (LePel. & Br.). Eden; Long Pond; S. W. Harbor; Bar Harbor, July 17–27.
- E. (HYPOCRABRO) TRIFASCIATUS (Say). Bar Harbor, Aug. 9.
- E. (HYPOCRABRO) CONTINUUS (Fabr.). Common, July 10–Aug. 30.
- E. (ECTEMNIUS) DIVES (LePel. & Br.). Eden; Long Pond, July 16–17.
- E. (ECTEMNIUS) CORRUGATUS (Pack.). S. W. Harbor, July 11.

LESTICA Billberg

- L. (SOLENIUS) INTERRUPTA INTERRUPTA (LePel. & Br.). Eden, July 24–Sept. 6.

OXYBELUS Latreille

- O. QUADRINOTUM Say. This genus, instead of carrying the flies, which it used to provision, impales them on its sting. Penikese in bank, July.

HYLAEIDAE

COLLETES Latreille

- C. ARMATUS Patt. Record of capture lost. The members of this genus build nests in the ground, often in colonies.
C. MESOCOPUS Swenk. Station F39, Oct. 6.

HYLAEUS Fabricius

- H. CRESSONI (Ckll.). Eden, July 15. Look for the nests of some of this genus in stems.
H. ELLIPTICUS (Kirby). Bar Harbor; Penikese, July 13-19.
H. MODESTUS Say. Common, June 17-July 30.
H. THASPII (Robts.). S. W. Harbor, July 11.
H. ZIZIAE (Robts.). Station F259.

ANDRENIDAE

ANDRENA Fabricius

This genus burrows in bare ground. They sometimes are in colonies. I have seen females, that appeared to be guarding the opening against parasites, step aside to let another go in.

- A. ASTERIS Robts. Station F267, Sept. 5.
A. BIPUNCTATA Cress. Station F240, May 11.
A. CARLINI Ckll. Station F241, May 11.
A. CLARKELLA Kirby. Station F241, April 21.
A. COCKERELLI Graen. Bar Harbor; Eden, June 7-9.
A. CORNI Robts. Station F236, May 11.
A. CRATAEGHI Robts. Section 28, July 11.
A. HIRTICINCTA Prov. S. W. Harbor, Aug. 23. On flowers of goldenrod.
A. LATA Vier. Bar Harbor, June 8, 1921. Type locality.

- A. MILWAUKENSIS Graen. Bar Harbor; Echo Lake, June 8–July 12; Witch Hole on blackberry flowers. This species is frequently stylopized.
- A. MIRANDA Smith. Eden, July 11.
- A. NUBECULA Smith. Bar Harbor, Sept. 9–11.
- A. PLACIDA Smith. Station F240, May 11.
- A. SALICTARIA Robts. Station F240, May 11.
- A. THASPII Graen. Echo Lake; N. E. Harbor (Minot), June 18–July 8. Stylopized.
- A. TUMIDA Vier. Echo Lake, July 12, 1918. Type locality.
- A. VICINA Smith. Bar Harbor, June 8. On flowers of fruit trees.
- A. WEEDI Viereck. Station F236, May 11.
- A. WHEELERI Graen. Mt. Desert, July 15 (Lutz).
- A. WILKELLA Kby. S. W. Harbor; Bar Harbor, June 7–July 22. On flowers of the raspberry and gooseberry.
- A. sp. Station F241, April 21.
- A. sp. Station F301, April 25.

CALLIOPSIS Smith

- C. ANDRENIFORMIS Smith. Station F259, July 26. Social parasites on other bees.

EPEOLUS Latreille

- E. SCUTELLARIS Say. Fair Grounds, Aug. Station F159.

TRIEPEOLUS Robertson

- T. DONATUS (F. Sm.). Section 28, June 17.

HALICTUS Latreille

These are gregarious mining bees which excavate their nests in old gravel pits and the like. In some cases several bees of a species will excavate galleries that lead to a common entrance which is guarded by a bee whose head is used as a portal.

- H. ARCUATUS Robts. Bar Harbor; Narrows, July 18–Aug. 14; Station F259.
- H. ATHABASCENSIS Sand. Mt. Desert (Br.), May 2.
- H. CORIACEUS Smith. Common, July 6–Aug. 17; Station F259.
- H. CRESSONII Robts. Bar Harbor; Green Mt.; Echo Lake, June 11–July 25.
- H. FOXII Robts. Bar Harbor, June 7–13.
- H. LEROUXII Lepel. Common, July 6–Sept. 6.
- H. LEUCOZONIUS (Schrank). Mt. Desert, July 13. Not common.
- H. NYMPHAEARUM Robts. Narrows, Aug. 13.
- H. PILOSUS Sm. Mt. Desert, July 11. Not common.
- H. PROVANCHERI D. T. Bar Harbor; S. W. Harbor; Middle Road; Newport Meadow; Stations F242 and F249, Aug. 15–Sept. 2.
- H. QUADRIMACULATUS Robts. S. W. Harbor, July 13.
- H. RUBICUNDUS (Christ.). Mt. Desert, July 11; Section 23, Sept. 15.
- H. SIMILIS Smith. Common, July 6–Aug. 17.
- H. TRUNCATUS Robts. S. W. Harbor, Sept. 6.
- H. CHLORALICTUS Robts. Bar Harbor; Long Pond; Narrows, June 15–Aug. 21.
- H. (CHLORALICTUS) PLANATUS Lovell. Mt. Desert, July 10.
- H. (CHLORALICTUS) VIRIDATUS Lovell. Mt. Desert, July 17.
- H. ZEPHYRUS Smith. S. W. Harbor; Echo Lake, July 10–17.

HALICTOIDES Nylander

- H. NOVAEANGLIAE (Robts.). This small bee occurs in abundance in the southern part of the State, and is supposed to frequent only the flowers of Pickerel Weed (*Pontederia cordata*) and its life is supposed to conform in a way to the flower of this plant. I have examined thousands of blossoms in different parts of the Island in the past few years and failed to find any of the bees, but I swept one specimen in the swamp back of Schooner Head on August 28, 1936, which is interesting, because there is no Pickerel Weed in that swamp.

AUGOCHLORA Smith

A. PURA (Say). Bar Harbor; Eden, June 9-July 25; under bark of yellow birch log at Station F151.

A. STRIATA Prov. Common and widely distributed.

AUGOCHLORELLA Sandhouse

A. STRIATA (Prov.). Common and widely distributed.

AGAPOSTEMON Guérin

A. VIRESCENS Feb. Eden fairgrounds on wild roses, Station F259. This very beautiful species is not common.

MACROPIS Panzer

M. MORSEI Robts. S. W. Harbor; Echo Lake; Salisbury Cove, June 23-July 13.

NOMADA Fabricius

N. CRESSONII Robts. Bubble Brook on blackberry blossoms, June 15. Also social parasites of other bees.

N. CUNEATA var. QUADRISIGNATA Robts. Bar Harbor; Echo Lake, June 16-July 26.

N. PERPLEXA Cress. Bar Harbor; Narrows; Salisbury Cove, June 9-July 23.

N. sp. Station F267, Sept. 5.

N. sp. Outlet of Bubble Br. on catkins, May 19, in U.S.N.M.

SPHECODES Latreille

S. ARVENSIS Patt. Station F267, Sept. 5. This genus are social parasites of *Halictus*.

S. JOHNSONI Lovell. N. E. Harbor, July 24.

S. NUBILUS Lovell and Cockerell. Bar Harbor, Aug. 15.

S. OBSCURANS L. and C. Bar Harbor, June 16-July 24.

S. RANUNCULI Robts. Bar Harbor, June 15.

S.sp. Station F267, Sept. 5.

ANTHOPHORA Latreille

- A. (CLISTODON) TERMINALIS Cress. Bar Harbor; Eden, June-July 18. Frequents the asters.

MELISSODES Latreille

- M. ILLATA L. & C. Station F264, Aug. 10. All of this genus frequent the *Compositae*.
M. RUSTICA (Say). Bar Harbor; S. W. Harbor; Salisbury Cove; Aug. 10-22.
M.sp. Near Icy Hill, Aug. 7.

CERATINA Latreille. The Little Carpenter Bees

- C. CALCARATA Robts. Record of capture lost.
C. DUPLA Say. Bar Harbor, June 25. It makes its nest in the pith of briars, etc.
C. METALLICA H. S. Smith. Section 40 sweeping, June 19.

MEGACHILIDAE

ANDRONICUS Cresson

- A. CYLINDRICUS Cress. Bar Harbor; S. W. Harbor, June 8-July 11.

ALCIDAMEA Cresson

- A. PRODUCTA Cress. Bar Harbor, June 7. Nests in the pith of plants such as sumac.
A. TRUNCATA Cress. Bar Harbor, July 10-25.

COELIOXYS Latreille

- C. SODALIS Cress. Bar Harbor, July 19-20. These live as social parasites in the nests of *Megachile*.
C. sp. Bar Harbor, July 10.
C. sp. Section 28, July 23.

HERIADES Spinola

H. CARINATUS Cress. Eden, July 24.

MEGACHILE Latreille. The Leaf-cutting Bees

- M. INFRAGILIS Cress. Common, July 12–Sept. 23.
 M. LATIMANUS Say. Eden, Aug. 11, 1926.
 M. MENDICA Cress. Southwest Harbor, Sept. 6.
 M. MUCIDA Cress. Common, June 21–July 26.
 M. RELATIVA Cress. S. W. Harbor; Echo Lake; Bar Harbor, June 27–Sept. 13.
 M. VIDUA Smith. Bar Harbor; S. W. Harbor; Echo Lake, June 7–July 20.
 M. (ANTHEMOIS) INERMIS Prov. Indian Point on flowers, July 28; S. end of Eagle Lake on *Solidago*, Aug. 16. Scarce.
 M. (DELOMEGACHILE) MELANOPHEA Smith. Common on wild roses, etc., June 9–July 25.
 M. (LITOMEGACHILE) BREVIS Say. Section 28, July 23. Not common.

OSMIA Panzer. The Mason Bees

These make a cement-like mass with sand, clay, vegetable fragments and a fluid which cements it together. The species vary in the kind of place that they select. Some use snail shells.

- O. ALBIVENTRIS Cress. Echo Lake, June 17; Station F251.
 O. ATRIVENTRIS Cress. Eden on cord wood, July 3. Scarce.
 O. BUCEPHALA Cress. Little Round Pond under wet wood, July 21. Scarce.
 O. DISTINCTA Cress. "Mt. Desert," July 30, on flowers of *Vicia* (McAtee).
 O. INSPERGENS Lov. & Ckll. Penikese, July 13. Station F251.
 O. LIGNARIA Say. Bar Harbor, July 21.
 O. PROXIMUS Cress. Bar Harbor, June 9; Echo Lake, June 17–July 12.
 O. PUMILA Cress. Bar Harbor, June 9.
 O. SIMILLIMA Smith. Common, June 9–July 12.

STELIS Panzer

S. LATERALIS Cress. S. W. Harbor, July 20. Parasitic in the nests of *Alcidamia producta* Cr.

BOMBIDAE

BOMBUS Latreille (*Bremus* Panzer). The Bumblebees

- B. AFFINIS Cress. Station F279, July 12. Scarce.
B. BIMACULATUS Cress. "Mt. Desert," July 30 (McAtee).
B. BOREALIS Nyl. S. de Mont Spring, July 3 (Salman). Scarce.
B. FERVIDUS Fab. Nurseries, June 27; N. end of Eagle Lake, Sept. 26.
B. PERPLEXUS Cress. Common, June 17–Sept. 30.
B. TERNARIUS Say. Orange-banded bumblebee. Common, June 7–Aug. 24.
B. TERRICOLA Kby. Common all summer.
B. VAGANS F. Sm. With us all summer but in smaller numbers than the three next above.

PSITHYRUS Lepeletier. The Usurper Bees

- P. ASHTONI (Cress.). Bar Harbor; S. W. Harbor; Narrows, June 7–Aug. 14.
P. LABORIOSUS (Fab.). S. W. Harbor, July 15.
P. LABORIOSUS var. CITRINUS (Smith). Bar Harbor; S. W. Harbor, July 10–Aug. 14.
P. FERNALDAE Franklin. Bar Harbor; Tremont, July 19–Aug. 23.

APIDAE

APIS Linnaeus

- A. MELLIFERA Linn. Generally distributed. This is the common honey bee.

Class ARACHNIDA

Many of the following were collected by Dr. Charles H. Blake alone and also with the author.

Order CHELONETHIDA (Pseudoscorpiones)**(False or Book Scorpions)****CUTHONIDAE****CHTHONIUS C. L. Koch**

C. TETRACHELATUS (Preyssler). One specimen under a stone on Bar Island, August 15, 1931.

CHERNETIDAE**CHELANOPS Nicolet**

C. sp. Under stones and logs, in damp places. Shore of Lake Wood, Duck Brook Path, Salisbury Cove and Corfield. Very common.

HESPEROCHERNES Chamberlin

H. TAMAE (Beier). These are frequently carried into the laboratory in October attached to the legs of the fly *Pegomyia lipsia* and on no other. I have seen as many as two on one fly and three on another. This is the first record for this species in New England.

CHELIFERIDAE**CHELIFER Geoffroy de St. Hilaire**

C. CANCROIDES (Linnaeus). One specimen taken in a house, August 10, 1931.

NEOBISIIDAE**MICROBISIUM Chamberlin**

M. BRUNNEUM (Hagen). Penikese sifting, June 25.

Order ARANEIDA (Spiders)

ULOBORIDAE

HYPTIOTES Walckenaer

- H. CAVATUS (Hentz). In underbrush, uncommon. The Bowl, base of Newport Mountain. On spruce in woods, one female, September 22, 1935. Bass Harbor, August 21, 1901 (Britcher).

DICTYNIDAE

DICTYNA Sundevall

- D. ARUNDINACEOIDES Keyserling. These spiders build conspicuous nests in dead goldenrod or similar plants. Generally distributed around the edges of fields. Stations F402, F242, Bass Harbor (Britcher), Town Hill, Nurseries. June 24–October 3.
- D. CRUCIATA Emerton. One young female, October 6, 1931. F39.
- D. MAXIMA Banks. Hemlock Road woods, May 28.
- D. MURARIA Emerton. One young male, middle of August. Bay Shore Drive. Bass Harbor, August 21, 1901 (Britcher).
- D. PHYLAX Gertsch and Ivie. Station F400.
- D. SUBLATA (Hentz) (*volupis* Keyserling). Common in woods. The Bowl, Ireson Hill, base of Newport Mountain, Duck Brook Path, Half Moon, Hemlock Road woods. F418, two males, F416, male and female. Males in May; females during most of summer. Bass Harbor, August 21 (Britcher).

SCOTOLATHYS Simon

- S. PALLIDA (Marx). Hill in Sec. 40, sifting. July 14, one female.

AMAUROBIUS C. L. Koch

- A. BENNETTI (Blackwall). Under bark on stumps and under logs and stones in woods. Mature females common from June to August; males not taken but appear in early spring.

Corfield, Bass Harbor, Hulls Cove, Penikese, Gt. Heath, opposite Newport Mountain, Reservoir Road, Morrell Park. Young frequent in sifting. Young female, meat trap, Toad Hole, September 1, 1935. One female on rotten wood, May 30, 1931. One female, F190. Females with egg sacs, July 24, 1902, Bass Harbor (Britcher).

- A. *BOREALIS* Emerton. Foot of Newport Mountain, Reservoir Road, Seal Harbor. Immature and mature females taken in sifting leaves, August 2–August 16.

TITANOECA Thorell

- T. *AMERICANA* Emerton. Under stones, in a very hot, dry area. Adult and rather common in late June. The Hop. Many species with egg sacs in small pockets beneath stones, Bass Harbor, July 24 (Britcher).

DYSDERIDAE

DYSDERA Latreille

- D. *CROCATA* C. Koch. Bass Harbor, August 21, 1901 (Britcher). A widely distributed species of European origin.

MIMETIDAE

MIMETUS Hentz

- M. *EPEIROIDES* Emerton. One young female, presumably this species. F269.

ERO C. Koch

- E. *FURCATA* (Villers). Foot of Newport Mountain, Lower Breakneck woods, females taken in sifting leaves. August 2–August 13.

LINYPHIIDAE

LINYPHIINAE

BATHYPHANTES Menge

- B. *CONCOLOR* (Wider). Under stones, scarce. Corfield, West Side, sifting, July 27.
 B. *PALLIDA* Banks (*nigrina* Emerton). West Side, sifting, July 27–28.
 B. species. One female from Indian Point, August 25.

DRAPETISCA Menge

- D. ALTERANDA Chamberlin (*socialis* Emerton). On spruce trunks, two specimens. Duck Brook Path. Several females from bark of fir trees infested with bark louse, September 12, 1945 (A. E. Brower).

FRONTINELLA F. Cambridge

- F. COMMUNIS (Hentz). Bass Harbor, August 21 (Britcher), F242, F400, June 23, F399.

HELOPHORA Menge

- H. INSIGNIS (Blackwell). Bass Harbor, August 21 (Britcher).

LEPHTHYPHANTES Menge

- L. LEPROSA (Ohlert). One female, August 21, Bass Harbor (Britcher).
L. NEBULOSUS (Sundevall). One female, Long Porcupine Island, Bass Harbor, August 21 (Britcher).
L. ZEBRA Emerton. Hare Forest, sifting, August 10.

LIXYPHIA Latreille

- L. MACULATA Emerton. One immature, S476; one immature, S489.
L. MANDIBULATA Emerton (*pusilla* of authors). Corfield, Half Moon Pond, Somes Sound, F242, F399, F416, F420, F452, males and females, May 23–June 1.
L. MARGINATA C. L. Koch. In woods, chiefly coniferous, living near ground. Very common and widely distributed. Seal Harbor (Britcher), Hemlock Road woods, F190, F242, F399, F416, F420. Males and females, May 28–August 25. Female on sweet fern, June 23.

MICRONETA Menge

- M. VIARIA (Blackwall). Penikese, Cross Road Sal. Cove, Section 37, Foot of Newport Mountain, Hare Forest, taken by sifting leaves, June 25–August 10.

M. ANGULATA (Emerton). Penikese, Hare Forest, females, sifting. June 25–August 10.

M. MULTESIMA Cambridge. Lower Breakneck woods, sifting, August 13.

PITYOHYPHANTES Simon

P. COSTATA (Hentz). In similar situations as *marginata*, fairly common and widely distributed. Females, F400, June 23; F242; Bass Harbor, August 21 (Britcher).

P. LIMITANEA (Emerton). One young female, Robinson Mountain, August 24. One immature female, Paradise Hill, on bush, August 15.

TAPINOPA Westring

T. BILINEATA Banks. Rare. Corfield, Long Porcupine Island. Bass Harbor, August 21 (Britcher); one immature male, July 24 (Britcher).

ERIGONINAE

CERATICELUS Simon

C. FISSICEPS (Cambridge). Among leaves and on shrubs, very common. Duck Brook Path, Hulls Cove, Bass Harbor, August 21 (Britcher); F410.

CERATINELLA Emerton

C. BRUNNEA Emerton. McFarland Hill, alt. 700 ft., sifting leaves, August 6.

CERATINOPSIS Emerton

C. INTERPRES (Cambridge). One specimen. Heath south of Salisbury Cove.

CHOCORUA Crosby and Bishop

C. CUNEATA (Emerton). Penikese, sifting, June 25.

DIPLOCEPHALUS Bertkau

D. CRISTATUS (Blackwall). One pair, Corfield.

GONATUM Menge

G. RUBENS Menge. Bass Harbor, August 21, 1901 (Britcher).

GRAMMONOTA Emerton

G. PICTILIS (Cambridge). In woods, on the ground, on tree trunks. Duck Brook Path, Laboratory, Bass Harbor (Britcher), S65, S67, S64, F400, F409, males and females, June 23–August 21.

HYPSELISTES Simon

H. FLORENS (Cambridge). Head Somes Sound, on sweet fern, May 23–June 23. Bass Harbor, August 21, 1901 (Britcher).

ISLANDIANA Braendegaard

I. FLAVEOLA (Banks). Fir Woods, sifting moss, July 27.

MASO Simon

M. SUNDEVALLI (Westring). Penikese, sifting, June 25.

PHLATTOTHRATA Crosby and Bishop

P. FLAGELLATA (Emerton). Seal Harbor, July 1, 1909, male type (J. H. Emerton).

ARGIOPIDAE

ACANTHEPEIRA Marx

A. STELLATA (Walckenaer). One female, Eden (Northeast Branch).

ARANEA Linnaeus

A. CAVATICA (Keyserling). On houses and barns, common. Corfield, Halls Cove, Salisbury Cove, Beech Hill. One male, one female, Corfield, July 16, 1937. One young female, July 1, 1934. Immature males, one female, Shop, September 20, 1935. Bass Harbor, female in web among piles in wharf, August 21 (Britcher).

- A. CORTICARIA (Emerton). Two females, F122. One male, Indian Point, August 28, 1944; Bass Harbor, August 21 (Britcher).
- A. DISPLICATA (Hentz). In woods, fairly common. Lake Wood, Corfield, Salisbury Cove, Robinson Mountain, Reservoir Road, F400, F401, June 23–August 24. Juvenile specimens frequently on white pine needles.
- A. DUMETORUM (Villers). Tarn under bark, May 22. Scarce.
- A. FOLIATA Fourcroy. Bass Harbor, August 21 (Britcher).
- A. NORDMANNI (Thorell). Rare. Corfield, Salisbury Cove, on beech in the Gorge, September 10, Bass Harbor, August 21 (Britcher).
- A. RAJI (Scopoli) (*marmoreus* Clerck; *gigas* Leach). Females, Salisbury Cove, Corfield, Bass Harbor (Britcher), S68, F218, Male, Flying Place, September 17.
- A. SILVATICA (Emerton). One female, Hop, September 20, 1935.
- A. SOLITARIA (Emerton). One male on poplar tree, September 30, 1935, F158.
- A. THADDEUS (Hentz). One specimen, Eden (Northeast Branch).
- A. TRIFOLIUM (Hentz). Females, Beech Hill, F122, F286, S62, F122. One male, Bay Shore Drive, July 28, 1937. One female, Sec. 15, September 5, 1937. Bass Harbor, August 21, webs in bushes and trees, (Britcher).
- A. UNDATA Olivier (*sericatus* Clerck). Rare. Corfield, Hulls Cove.

ARGIOPE Audouin

- A. TRIFASCIATA (Forsk.) Quite common. Adult in late August and September. Eden (Northeast Branch), Salisbury Cove, Hulls Cove, Norway Drive, Somesville, Bass Harbor, Great Heath, one female, S70, females, F113, F122, F210, S70, male, August 17.
- A. AURANTIA (Lucas). One female, near Seal Cove, August 24, 1935. Bass Harbor, August 21, in web in grass at roadside (Britcher).

CYCLOSA Menge

- C. CONICA* (Pallas). Lake Wood, base of Newport Mountain, Long Poreupine Island, Hemlock Road Woods, F463 on porch, S64, May 28–June 7.

MANGORA Cambridge

- M. GIBBEROSA* (Hentz). Uncommon. Eden (Northeast Branch), Heath south of Salisbury Cove, Sand Point on patch of vegetation, two females, August 16.
- M. PLACIDA* Hentz. Half Moon Pond, Reservoir Road, June 1–July 2, Witch Hole on ferns, May 20, F416, three females.

META C. L. Koch

- M. MENARDI* (Latreille). Dark and damp cellar in an abandoned house, immature female, August 17.

METEPEIRA F. Cambridge

- M. LABYRINTHEA* (Hentz). Rare. Emery District, Heath south of Salisbury Cove. One female, F218.
- M. PALUSTRIS* Chamberlin and Ivie. Indian Point, nest in bush, female, August 27.

NEOSCONA Simon

- N. ARABESCA* (Walckenaer). One specimen, heath south of Salisbury Cove. Bass Harbor (Britcher), Heath south of Salisbury Cove, Emery Dist., Town Hall, F210, Sect. 15, September 5, 1937, F269, S70, Sect. 37 in thistles, F308, June 23–August 25.
- N. BENJAMINA* Walckenaer. Bass Harbor, August 21 (Britcher).

PACHYGNATHA Sundevall

- P. AUTUMNALIS* Keyserling. One male, S32, September 4, 1935.
- P. XANTHOSTOMA* Koch. Bass Harbor, August 21 (Britcher).
- P. species*, S32, September 7, 1935, one male.

SINGA C. L. Koch

- S. VARIABILIS Emerton. Low bushes, very abundant. Adult in July and August. The coloration amply justifies the specific name. Eden (Northeast Branch), Salisbury Cove, Norway Drive, Corfield, Duck Brook Path. Seven young females, F269.
- S. PRATENSIS Emerton. Bald Mountain, June 6.

TETRAGNATHA Latreille

- T. ELONGATA Walckenaer. Eden (Northeast Branch), Norway Drive. Two male, one female, F252. One male, Bar Harbor, July 3, 1938.
- T. LABORIOSA Hentz. F399, F418.
- T. MUNDA Chamberlin and Gertsch (*extensa* Authors). One female, Witch Hole Pond, July 27, 1933. One male, one female, F242.
- T. STRAMINEA Emerton. More common than *elongata*. Heath south of Salisbury Cove, Halls Cove, the Hop.
- T. VIRIDIS Walckenaer. Halls Cove, September.

THERIDIOSOMA Cambridge

- T. GEMMOSUM (L. Koch). In low, wet places, uncommon. Duck Brook Path, base of Newport Mountain, north end of Echo Lake, F420, two females.

ZILLA C. L. Koch

- Z. ATRICA (C. L. Koch). Quite common around the Corfield Laboratory. One male, in house, September 1, 1930. Bass Harbor, August 21 (Britcher).
- Z. MONTANA C. Koch. Bass Harbor, August 21, one female with cocoon in branch of spruce tree six or seven feet above ground, in woods (Britcher).
- Z. X-NOTATA C. Koch. Bass Harbor, August 21 (Britcher).

THERIDIIDAE

CRUSTULINA Menge

C. ALTERA Gertsch and Archer. Under stones, uncommon, The Hop.

C. BOREALIS Banks. Penikese, one female, July 27.

CTENIUM Menge

C. RIPARIA (Keyserling). Great Head, sifting, female, August 11.

DIPOENA Thorell

D. NIGER Emerton. Station F412, Town Hill, August 6.

ENOPLOGNATHA Pavesi

E. PURITANA Chamberlin and Ivie (*marmorata* Emerton). Lake Wood, one female.

EURYOPIS Menge

E. FUNEBRIS Hentz. Head of Somes Sound, May 23.

RHOMPHAEA L. Koch

R. FICTILIUM (Hentz). One specimen, Mount Kebo. One immature male, S66.

STEATODA Sundevall

S. BIPUNCTATA (Linnaeus). An European species, recorded sparingly from the northeastern United States and Canada, probably now established. Female, the Laboratory, the Shack, in old abandoned cellar, dim light, at Indian Point, S60, July 20–September 16, one male in Laboratory with *Agelenopsis potteri* in web.

S. BOREALIS (Hentz). In sheltered crannies about houses, quite common. Adults taken from July 1 to middle of September. Bar Harbor, Halls Cove, Salisbury Cove. Young female, Corfield, July 10, 1935. Female from under spruce bark, Boyd Path, October 4, 1935, Bass Harbor, August 21 (Britcher).

THERIDION Walekenaer

- T. AURANTIUM* Emerton. Two females, Salisbury Cove.
- T. DIFFERENS* Emerton. Norway Drive, the Bowl, heath south of Salisbury Cove. Females, F194, F242, F406, F399; males, F406, June 23.
- T. FRONDEUM* Hentz. Uncommon, but widely distributed in woods. Seal Harbor Brook, July 14, Bass Harbor, August 21 (Britcher).
- T. GLOBOSUM* Hentz. In undergrowth, rare. Hulls Cove.
- T. KENTUCKYENSE* Emerton. Female (dead) in ants nest, May 15.
- T. MAXILLARE* Emerton. Male type from large sphagnum bog at Southwest Harbor, July 1, 1909 (J. H. Emerton), one female, F410.
- T. MONTANUM* Emerton. Bass Harbor, August 21 (Britcher).
- T. MURARIUM* Emerton. One female taken on window. Bar Harbor, F409, two females, S67, two immature specimens.
- T. REDIMITUM* (Liaeus). Seal Harbor Brook, males and young female.
- T. TEPIDARIORUM* C. L. Koch. A cosmopolitan species abundant in and around houses and buildings. Corfield Laboratory, not uncommon in sheltered spots. Bass Harbor, August 21 (Britcher), two females from a dark and damp cellar in abandoned house, August 17, and three females from similar cellar on Indian Point, August 27.
- T. UNIMACULATUM* Emerton. One female, F210.
- T. ZELOTYPUM* Emerton. On trees, uncommon. Corfield, S64, two immature, October 8, 1938, in swallow's nest.

PISAURIDAE

DOLOMEDES Latreille

- D. SCRIPTUS* Hentz. A female guarding her nest, taken on west side of Bubble Pond, August 9, 1932, Lake Wood. Female, Dam at Ripple Pond, July 1, 1935.
- D. SEXPUNCTATUS* Hentz. Two females from pond, Ireson Hill, July 7, 1933. Immature specimens, F411, F416.

AGELENIDAE

AGELENOPSIS Giebel

- A. POTTERI (Blackwall). (*Agelena naevia* of American authors, in part.) Abundant in meadows and bushy fields, everywhere. Adult in August. Females from Sea Wall Bog, F218, Laboratory in web of *Steatoda*, in everlasting, August 8–September 20.
- A. UTAHANA Chamberlin and Ivie. Opposite Newport Mountain, McFarland Hill, Seal Harbor Brook, August 1–August 12.

CICURINA Menge

- C. BREVIS (Emerton). North end of Echo Lake, Jordan Mountain, under bark, foot of Newport Mountain, McFarland Hill, Seal Harbor Brook; frequently taken in sifting, August 2–September 2.
- C. PALLIDA Emerton. Foot of Newport Mountain, sifting, one female, August 2.
- C. ARCUATA Keyserling (*complicata* Emerton). Lake Wood, base of Newport Mountain.

CORAS Simon

- C. MONTANUS (Emerton). Young male and female, July 20, 1936. F257.

CRYPHOECA Thorell

- C. MONTANA Emerton. Base of Newport Mountain, Seal Harbor (J. H. Emerton), Lower Breakneck Woods Drive, mature female, August 13, sifting.

TEGENARIA Latreille

- T. DERHAMI (Scopoli). F402, one immature female of this common, cosmopolitan house spider.

HAHNIIDAE

ANTISTEA Simon

- A. BRUNNEA (Emerton). One specimen. Duck Brook Path.

HAINIA C. L. Koch

H. CINEREA Emerton. Duck Brook Path, Great Head, sifting, females, August 11.

NEOANTISTEA Gertsch

N. RADULA Emerton. The most common species of the subfamily. Sifted from dead leaves in the woods with the two preceding forms. Duck Brook Path, Ocean Drive, Lake Wood, base of Newport Mountain, north end of Echo Lake, Long Porcupine Island, Hare Forest, Great Head, Morrell Park, Reservoir Road, males and females in August.

LYCOSIDAE

LYCOSA Latreille

L. HELLUO Walckenaer. One specimen, Hulls Cove.

PARDOSA C. L. Koch

P. LAPIDICINA Emerton. Quite common among stones just above the high-water line. Corfield, Salisbury Cove, Bass Harbor, August 21 (Britcher).

P. MACKENZIANA (Keyserling) (*uncata* Thorell). Two females. Lake Wood, Seal Harbor (J. H. Emerton).

P. MODICA (Blackwall) (*brunnea* Emerton). One specimen, Eden (Northeast Branch). One female, Station No. 172.

P. XERAMPELINA (Keyserling). Uncommon. Lake Wood, base of Newport Mountain, Eden (Northeast Branch), Seal Harbor (J. H. Emerton).

PIRATA Sundevall

P. PRODIGIOSA Keyserling (*febriculosa* Becker). One young male from Bar Harbor, July 3, 1938, presumably this species. Bass Harbor, August 21 (Britcher).

TARENTULA Sundevall

T. ACULEATA (Clerck) (*beani* Emerton). Seal Harbor (J. H. Emerton). Bass Harbor, August 21 (Britcher).

TROCHOSA C. L. Koch

- T. FRONDIOLA (Emerton). Norway Drive, Lake Wood, Penikese, Corfield, Bass Harbor (Britcher). June 12–August 21.
- T. PRATENSIS (Emerton). Eden (Northeast Branch), Penikese, Hare Forest, Great Head, Lower Breakneck Woods. June 25–August 13.

GNAPHOSIDAE (Drassidae)

DRASSODES Westring

- D. NEGLECTUS (Keyserling). Under stones, in warm, open, places. Lake Wood, the Hop, Bass Harbor, August 21 (Britcher).

DRASSYLLUS Chamberlin

- D. DEPRESSUS (Emerton). Opposite Newport Mountain, Morrell Park, Penikese, young specimens in sifting, July 27–August 11. Bass Harbor, August 21 (Britcher).
- D. RUFULUS Banks. Bass Harbor, August 21 (Britcher).

GNAPHOSA Latreille

- G. MUSCORUM (L. Koch). (*gigantea* Keyserling). McKinley, Morrison Farm under oak bark, Cross Road Sal. Cove, opposite Newport Mountain, Sec. 15, Sec. 37, frequent in sifting, July 14–October 5. Bass Harbor, July 24, many specimens beneath stones in cavities, some with egg sacs (Britcher).

HAPLODRASSUS Chamberlin

- H. SIGNIFER (C. Koch). Cross Road Sal. Cove, foot of Newport Mountain, Reservoir Road, juvenile and immature in siftings, July 12–August 16.

HERPYLLUS Hentz

- H. VASIFER (Walckenaer). In houses. Rare. Hulls Cove, Bar Harbor.

ZELOTES Gistel

Z. ATER (Hentz). (*subterraneus* of authors). Lake Wood, Hill in Sec. 40, opposite Newport Mountain, Great Head, Sec. 37, frequent in sifting, July 12–August 11. Bass Harbor, July 24, beneath stones, some with egg sacs (Britcher).

CLUBIONIDAE

AGROECA Westring

A. PRATENSIS Emerton. Opposite and at foot of Newport Mountain, Penikese, Great Head, Lower Breakneck Woods Drive, Reservoir Road. Many young specimens taken in sifting, June 25–August 16.

CASTIANEIRA Keyserling

C. CINGULATA (C. L. Koch). An ant mimic. Hulls Cove, opposite and at foot of Newport Mountain, McFarland Hill, Reservoir Road, young and mature rather frequent in sifting leaves, August 1–August 16.

C. CROCATA Hentz. Bass Harbor, August 21 (Britcher).

CLUBIONA Latreille

C. EMERTONI Petrunkevitch (*pusilla* Emerton). One male, Robinson Mountain, August 24, 1934. One female, Sta. No. 172.

C. MOESTA Banks. Beating pine, August 20, 1944.

C. OBTUSA Emerton. Stations F399 and F400, Bass Harbor, male, August 21 (Britcher).

C. PALLENS Hentz. Morrell Park, male, sifting, August 11.

C. RIPARIA L. Koch. One specimen, Duck Brook Path. One female, Sta. No. 172; four females, F418.

MICARIA Westring

M. MONTANA Emerton. This also is an ant mimic. Rare. Salisbury Cove, Seal Harbor Brook, August 12, male taken in sifting, Bass Harbor, August 21, egg sac, July 24 (Britcher).

PHREOTIMPUS Chamberlin and Ivie

- P. BOREALIS (Emerton). Cross Road Sal. Cove, on dry grass in swamp, Sec. 40, Sec. 37 sifting, McFarland Hill, sifting leaves, Seal Harbor Brook. July 14–August 12.
- P. CERTUS Gertsch. Seal Harbor Brook, July 14, male and female.
- P. PALUSTRIS (Banks). Morrell Park, opposite and at foot of Newport Mountain, McFarland Hill, frequently taken in sifting. August 1–August 11. Bass Harbor, August 21 (Britcher).

SCOTINELLA Banks

- S. DIVESTA (Gertsch). Bass Harbor, August 21, 1901, female allotype, (Britcher).
- S. PUGNATA (Emerton). (*Pleurolithus*). Lower Breakneck Woods Drive, one male, sifting, August 13.

THOMISIDAE

CORIARACHNE Thorell

- C. VERSICOLOR Keyserling. Sec. 15 under bark, October 4, Sec. 63, S67, F402, F407. Common on houses and under bark.

MISUMENA Latreille

- M. CALYCINA (Linnaeus) (*ratia* Clerck). On flowers, common. West of Lake Wood, heath south of Salisbury Cove. Norway Drive, Hulls Cove, Corfield, Ironbound Island. F242, F118, F218, F113, F122, F399, Emery Dist., Bald Mountain, Sec. 37 in thistles, sweeping rank grass in Great Heath, Town Hill. Male on everlasting, September 8.

MISUMENOIDES F. Cambridge

- M. ALEATORIUS (Hentz). In similar situations to the preceding species, common. Eden (Northeast Branch), Salisbury Cove, heath south of Salisbury Cove, Emery District, west of Lake Woods, Hulls Cove, Burnt Porcupine Island.

MISUMENOPS Cambridge

M. ASPERATUS Hentz. On sweet fern, June 23.

OXYPTILA Simon

O. AMERICANA Banks. Great Head, Morrell Park, Sec. 37, young from sifting leaves, July 12–August 11.

PHILODROMUS Walckenaer

P. PERNIX Blackwall. West of Lake Wood, heath south of Salisbury Cove, Eden (Northeast Branch), Corfield.

P. PLACIDUS Banks. Station F400, F420 on pine, Reservoir Road, June 23–August 19.

P. PRAELUSTRIS Keyserling. Sections 64, 65, and 67.

P. RUFUS Walckenaer. Heath south of Salisbury Cove, Hulls Cove, Ocean Drive near the Sand Beach, S67, F400, F416, Laboratory, frequent on vegetation, May 18–August 18.

P. VIRESCENS Thorell. One young female, Emery Dist., September 7, 1937. Five young females, Sec. 15, September 5, 1937. (A western species not heretofore reported from any states east of Minnesota.)

THANATUS C. L. Koch

T. FORMICINUS (Olivier) (*lycosides* Emerton). In unknown fields and roadsides. Hulls Cove, heath south of Salisbury Cove, Hemlock Road Woods, Penikese, Sec. 11, Sec. 15, Sec. 59, May 28–September 19. Bass Harbor, August 21 (Briteher).

TIBELLUS Simon

T. OBLONGUS (Walckenaer). Swept from grass, the most common member of the Philodrominae. West of Lake Wood, heath south of Salisbury Cove, Norway Drive, Hulls Cove, meadow east of Newport Mountains, Emery Dist., Nurseries, F218, Sec. 11, S61. Mature, June to October.

TMARUS Simon

T. ANGULATUS (Walckenaer). Salisbury Cove, Robinson Mountain, F31, F289, S67, S68.

XYSTICUS C. L. Koch

- X. ELEGANS Keyserling (*limbatus* Keyserling). Salisbury Cove, Hulls Cove, Robinson Mountain, in fungus, August 24, F208, F218, F122, Sec. 6, mostly females, F420, male.
- X. EMERTONI Keyserling. Great Heath, July 21, female. Bass Harbor, August 21 (Britcher).
- X. FEROX (Hentz). Ironbound Island.
- X. GULOSUS Keyserling. Norway Drive, Sand Beach. One female, Indian Point, September 26, 1937.
- X. LUCTANS (C. L. Koch). Ironbound Island. One female, F267. One young female, F218.
- X. PUNCTATUS Keyserling. One female on white daisy. Newmill Meadow, July 12, 1935. Male on Pine, August 21.
- X. TRIGUTTATUS Keyserling. Indian Point, Eden (Northeast Branch), F334, Nurseries, June 24, males and females. One male on sweet fern, June 23.
- X. ONTARIENSIS Emerton. Section 59.

SALTICIDAE (Attidae)

EVARCHA Simon

- E. HOYI (Peckham). Salisbury Cove, Lake Wood, Half Moon, F113, F175, F210, F402, F399, Sec. 37 in thistles, males and females, mostly from plants. Bass Harbor, August 21 (Britcher).

HABRONATTUS Cambridge

- H. SPLENDENS (Peckham) (*Pellenes*). Heath south of Salisbury Cove.

ICIUS Simon

- I. ELEGANS (Hentz). Heath south of Salisbury Cove.
- I. FORMICARIUS Emerton. One young female, Bass Harbor, August 21 (Britcher).
- I. SIMILIS Banks. One young female, Sec. 15, September 5, 1937, F399, F401, June 24.

METAPHIDIPPUS Cambridge

- M. CAPITATUS (Hentz). Common on vegetation. Emery Dist., Hemlock Road Woods, Lower Breakneck Woods Road, F122, F399, F416, S15, S61, S65, mature specimens, May 28–September 15.
- M. FLAVIPEDES (Peckham). Section 67.
- M. ORNATUS (Banks). Penikese, beating oak, June 6.

NEON Simon

- N. NELLI Peckham. Cross Road Sal. Cove, female, July 21.

PARAPHIDIPPUS F. Cambridge

- P. MARGINATUS (Walckenaer). An abundant species. Penikese, beating oak, Emery Dist., Indian Point, Town Hill, Sea Wall Bog, sweeping rank grass, Great Heath, F218, F210, F401, F416, S64, S68, many males and females. June 6–August 25. Female in *Malacosoma* nest, June 6, 1941.

PHIDIPPUS C. L. Koch

- P. CLARUS Keyserling. Heath south of Salisbury Cove, Lake Wood, Reservoir Road, July 2, Nurseries, Sec. 37, sifting July 12, F422, F169.
- P. WHITMANI Peckham and Peckham. Male, Penikese, June 6, beating bush, female, sweet fern, June 23, 1943.

SITTICUS Simon

- S. PALUSTRIS (Emerton). Meadow east of Newport Mountain.

SALTICUS Latreille

- S. SCENICUS (Linnaeus). Usually around houses and buildings. Salisbury Cove, Hulls Cove, Bass Harbor, August 21 (Britcher).

Order PHALANGIDA (Opiliones)
(Daddy-long-legs or Harvestmen)

PHALANGIDAE

CADDO Banks

- C. AGILIS Banks. A small, very active species found among moss in very damp places. Duck Brook Path, path from Ocean Drive to Bowl, Long Porcupine Island. Adults appear early in July.

ODIELLUS Roewer

- O. PICTUS (Wood). Our most abundant form, found chiefly in grass, at the foot of trees. Adults appear about the middle of July. Corfield, Duck Brook Path, Salisbury Cove, Hill in Sec. 40, Penikese, West Side, Seal Harbor Brook, Lower Breakneck Woods Drive, Reservoir Road, frequently taken in sifting leaves. June 25–August 13.

LIOBUNUM C. L. Koch

- L. CALCAR (Wood). Corfield, Norway Drive, Not common. Adult males appear as early as the first of July. Seal Harbor Brook, August 12, female, Lower Breakneck Woods Drive, August 13, male.
- L. POLITUM Weed. Duck Brook Path. Found in similar situations to *Caddo agilis*. Rather rare.
- L. LONGIPES Weed. Found very rarely with the preceding species.
- L. VENTRICOSUM (Wood). Edges of meadows and about houses. Salisbury Cove, not uncommon. Seal Harbor Brook, August 12, male, F426, female.

PHALANGIUM Linnaeus

- P. OPILIO Linnaeus. A rare form here. One male taken at Corfield early in July. Also taken at Jonesport. F418, one male.

Order ACARINA (Mites and Ticks)

ERIOPHYIDAE (The Gall Mites)

ERIOPHYES Siebold

E. sp. On crumpled leaves, Corfield, August.

IXODIDAE

HAEMAPHYSALIS Koch

H. LEPORIS-PALUSTRIS (Packard). On robin, song-sparrow
and hermit thrush, June 6–September (Britcher).

IXODES Latreille

I. sp. On red squirrel, August 9 (Britcher).

I. sp. A very small elongate form from mink.

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Orthocephalus	80	Pandora	397
Orthochaeta	416	Pangrapta	258
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Papaipema	248	Pemphilus	502
Papilio	216	Pemphredon	501
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Parabatus	458	Pentaueura	347
Parachytas	428	Pentatomidae	67
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Paraclius	377	Penthimia	88
Paraecynus	119	Peoria	295
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Paramesius	480	Perilampus	484
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Parauthrene	319	Perillus	69
Paraphia	277	Periope	475
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Pararicia	424	Periphyllus	97
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Philaenus	84	Phyllodinus	95
Philanthus	500	Phyllogaster	424
Philaronia	84	Phyllomyza	403
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Philodromus	526	Phyllomyia	433
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Phloeotrya	169	Phytomyza	402
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Sphaeroderus	102	Stobaera	96
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